

STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 179919

TO: Alton Pryor

Location: REM 4A39/4C70

Art Unit: 1616 February 17, 2006

Case Serial Number: 09/887832

From: P. Sheppard

Location: Remsen Building

Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes	

PLEASE PRINT CLEARLY

Scientific and Technical Information Center

Scientific and Technical Information Center							
SEARCH REQUEST FORM							
Requester's Full Name: ATTO Pro Examiner #: 7458 Date: 2/16/06 Art Unit: 66 Phone Number: 2-0626 Serial Number: 07/887, 832 Location (Bldg/Room#): 64739 (Mailbox #): 445 FC Results Format Preferred (circle): PAPER DISK ***********************************							
To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:							
Title of Invention:							
Inventors (please provide full names):							
Earliest Priority Date:							
Search Topic: Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.							
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.							
Socia-ch claims 18, 21,22 a) (treat? or prevent? or control?) (3a) multiple sclerosi b) monoamine oxidase or reserptine							

c) a (p) b

Pryor 09 887832 - - History

=> d his ful

L11

L12

(FILE 'HOME' ENTERED AT 14:35:55 ON 17 FEB 2006)

FILE 'REGISTRY' ENTERED AT 14:36:00 ON 17 FEB 2006
L1 245 SEA ABB=ON PLU=ON MONOAMINE OXIDASE?/CN OR RESERPINE

FILE 'HCAPLUS' ENTERED AT 14:43:09 ON 17 FEB 2006 33179 SEA ABB=ON PLU=ON L1 OR MONOAMINE(W) OXIDASE OR RESERPINE L2 14082 SEA ABB=ON PLU=ON ("MULTIPLE SCLEROSIS-ASSOCIATED RETROVIRUS" L3 /CV OR "MULTIPLE SCLEROSIS RETROVIRUS"/CV OR "MULTIPLE SCLEROSIS-ASSOCIATED RETROVIRUS 1"/CV OR "MULTIPLE SCLEROSIS-AS SOCIATED RETROVIRÚS 2"/CV) OR MULTIPLE(W) SCLEROSIS L5 16906 SEA ABB=ON PLU=ON ("MONOAMINE OXIDASE"/CV OR "OXIDASE, MONOAMINE"/CV OR "POLYAMINE OXIDASE"/CV) OR OXIDASE (A) MONOAMINE L6 37143 SEA ABB=ON PLU=ON L2 OR L5 OR MAO OR MAOA? 42 SEA ABB=ON PLU=ON L3 AND L6 L7 Γ 8 19 SEA ABB=ON PLU=ON L7 AND PD=<JULY 17, 2001 8 SEA ABB=ON PLU=ON L7 NOT (2006 OR 2005 OR 2004 OR 2003 OR L9 2002)/PY 19 SEA ABB=ON PLU=ON L8 OR L9 L10 D STAT QUE D IBIB ABS HITSTR L10 1-19

FILE 'REGISTRY' ENTERED AT 14:44:49 ON 17 FEB 2006 1 SEA ABB=ON PLU=ON TELE-METHYLHISTAMINE/CN 4834 SEA ABB=ON PLU=ON H2

FILE 'HCAPLUS' ENTERED AT 14:46:30 ON 17 FEB 2006 507 SEA ABB=ON PLU=ON L11 OR TELEMETHYLHISTAMINE OR TELE(W)METHYL L13 HISTAMINE 2053 SEA ABB=ON PLU=ON (L12 OR H2)(L)AGONIST L14 64 SEA ABB=ON PLU=ON L2 AND (L13 OR L14) L15 L16 60 SEA ABB=ON PLU=ON L15 AND PD=<JULY 17, 2001 60 SEA ABB=ON PLU=ON L15 NOT (2006 OR 2005 OR 2004 OR 2003 OR L17 2002)/PY L18 60 SEA ABB=ON PLU=ON L16 OR L17 L20 2 SEA ABB=ON PLU=ON L18 AND NEURO? (5A) METABOL? L21 31 SEA ABB=ON PLU=ON L18 AND (?MEDIC? OR ?THERAP? OR ?DRUG? OR ?PHARMA? OR TREAT? OR PREVENT? OR CONTROL?) L22 32 SEA ABB=ON PLU=ON (L20 OR L21) NOT L10 15 SEA ABB=ON PLU=ON L18 AND (NEURO? OR NERV?) L25 40 SEA ABB=ON PLU=ON L22 OR L25 L26

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 FEB 2006 HIGHEST RN 874326-73-5 DICTIONARY FILE UPDATES: 15 FEB 2006 HIGHEST RN 874326-73-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

D STAT OUE L26

D IBIB ABS HITSTR L26 1-40

Pryor 09 887832 - - History

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE HCAPLUS

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FILE COVERS 1907 - 17 Feb 2006 VOL 144 ISS 9 FILE LAST UPDATED: 16 Feb 2006 (20060216/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

Page 2

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 14:43:09 ON 17 FEB 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 17 Feb 2006 VOL 144 ISS 9 FILE LAST UPDATED: 16 Feb 2006 (20060216/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1	245	SEA FILE=REGISTRY ABB=ON PLU=ON MONOAMINE OXIDASE?/CN OR
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L2	33179	SEA FILE=HCAPLUS ABB=ON PLU=ON L1 OR MONOAMINE(W) OXIDASE OR
		RESERPINE
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) MONOAMINE
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L7	42	SEA FILE=HCAPLUS ABB=ON PLU=ON L3 AND L6
L8	19	SEA FILE=HCAPLUS ABB=ON PLU=ON L7 AND PD= <july 17,="" 2001<="" td=""></july>
L9	8	SEA FILE=HCAPLUS ABB=ON PLU=ON L7 NOT (2006 OR 2005 OR 2004
		OR 2003 OR 2002)/PY
L10	19	SEA FILE=HCAPLUS ABB=ON PLU=ON L8 OR L9

= > = >

=> d ibib abs hitstr l10 1-19

L10 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:284696 HCAPLUS

DOCUMENT NUMBER:

135:56220

TITLE:

Combined treatment with corticosteroids and

moclobemide favors normalization of

hypothalamo-pituitary-adrenal axis dysregulation in

relapsing-remitting multiple

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PATENT NO.
                          KIND
                                  DATE
                                             APPLICATION NO.
                                  20010404 EP 2000-308442 20000927 <--
     EP 1088550
                          A1
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO
     AU 782986
                          B2
                                  20050915
                                            AU 2000-61307
                                                                       20000926
     US 6417229
                          B1
                                  20020709 US 2000-671435
                                                                      20000927
                                  20020328 ZA 2000-5217
     ZA 2000005217
                          Α
                                                                      20000928
                          AA
                                  20010401 CA 2000-2321593
     CA 2321593
                                                                      20000929 <--
     JP 2001097854
                                             JP 2000-298071
                          A2
                                  20010410
                                                                       20000929 <--
                                              US 1999-157083P P 19991001
PRIORITY APPLN. INFO.:
                          MARPAT 134:261267
OTHER SOURCE(S):
     A method is provided for using the title compds., pharmaceutically
     acceptable salts thereof, or pharmaceutical compns. thereof, in the
     treatment of a disease, condition or disorder of the peripheral or central
     nervous system, including but not limited to Alzheimer's disease,
     stroke/cerebral ischemia, head trauma, spinal cord injury,
     multiple sclerosis, amyotrophic lateral sclerosis,
     Huntington's disease, Parkinson's disease, migraine, cerebral amyloid
     angiopathy, AIDS, age-related cognitive decline, mild cognitive impairment
     and prion diseases.
IT
     9001-66-5
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
         (inhibitors; \alpha-sulfonylaminohydroxamic acid inhibitors of matrix
        metalloproteinases for treatment of nervous system disorders, and use
        with other agents)
     9001-66-5 HCAPLUS
RN
     Oxidase, monoamine (9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
                                 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                          7
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L10 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                          2001:115322 HCAPLUS
                          134:159863
DOCUMENT NUMBER:
TITLE:
                          Methods of diagnosing or treating irritable bowel
                          syndrome and other disorders caused by small
                          intestinal bacterial overgrowth
INVENTOR(S):
                          Lin, Henry C.; Pimental, Mark
                          Cedars-Sinai Medical Center, USA
PATENT ASSIGNEE(S):
                          PCT Int. Appl., 43 pp.
SOURCE:
                          CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:
                                       APPLICATION NO.
     PATENT NO.
                          KIND
                                  DATE
                                                                       DATE
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     WO 2001011077 A2
WO 2001011077 A3
                                  20010215
                                              WO 2000-US22030
                                                                       20000811 <--
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         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,

ZA, ZW

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L10 ANSWER 4 OF 19 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:78560 HCAPLUS

DOCUMENT NUMBER: 134:142717

TITLE: Genotyping of the paraoxonase 1 gene for prognosing,

diagnosing, and treating a disease

INVENTOR(S): Schappert, Keith

PATENT ASSIGNEE(S): Nova Molecular, Inc., Can. SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT :	NO.			KIN	D	DATE		API	PLICAT	CION 1	NO.		D?	ATE		
	2001				A2	-	2001	0201		2000-		·			0000	710	_
	2001				AZ A3		2001		WO	2000-	-CA63	U		2(,000	/19	<
	W:	AU,	CA,				NO,	NZ,	SG								
	RW:	•		CH,	CY,	DE,	DK,	ES,	FI, F	R, GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	
110	CE 72	PT,	SE		D.1		2002	0.00	110	2000	C1.CF	0.0		2.0		774	
	6573				В1		2003	0603	US	2000-	- PTP2	06		20	0000.	/14	
EP	1208	233			A2		2002	0529	EP	2000-	-9455	10		20	0000	719	
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		ΙE,	FI,	CY													
RTTY	APP.	LN.	TNFO	. •					US	1999-	-1456	02P	1	P 19	9990	726	

PRIORITY APPLN. INFO.: US 1999-145602P P 19990726 WO 2000-CA830 W 20000719

AB Described herein are methods for diagnosing or treating a disease, as well as for identifying a subject for participation in a clin. trial, and identifying a subject at risk for a disease. The allele status of the PON1 gene was determined and PON1 DNA sequence polymorphisms were used to identify a subject at risk for Alzheimer's disease or non-Alzheimer's neurol. disorder.

IT 9001-66-5, Monoamine oxidase

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitor of, therapy; genotyping of paraoxonase 1 gene for prognosing and diagnosing and treating disease)

RN 9001-66-5 HCAPLUS

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L10 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:314865 HCAPLUS

DOCUMENT NUMBER: 132:344077

TITLE: Method for determining mRNA tissue distribution using

restriction endonuclease digestion and PCR

amplification for database indexing and drug screening

INVENTOR(S): Hasel, Karl W.; Hilbush, Brian S. PATENT ASSIGNEE(S): Digital Gene Technologies, Inc., USA

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

ACCESSION NUMBER:

2000:260041 HCAPLUS

DOCUMENT NUMBER:

132:288782

TITLE:

Methods and compositions for treating

neurodegenerative diseases using an antagonist or

inhibitor of p25

INVENTOR (S):

Tsai, Li-Huei; Patrick, Gentry N.; Lee, Ming Sum President and Fellows of Harvard College, USA

SOURCE:

PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021550	A2	20000420	WO 1999-US24221	19991013 <
WO 2000021550	A3	20000727		

W: CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT. SE

PRIORITY APPLN. INFO.:

US 1998-103975P P 19981013 P 19990527 US 1999-136631P

AB The present invention relates to methods of preventing or treating neurodegenerative diseases, including Alzheimer's disease, by administering an antagonist or inhibitor of p25. In particular, the invention relates to methods of preventing or treating a neurodegenerative disease by administering a calpain antagonist or inhibitor, or a cation (e.g. Ca2+) antagonist or inhibitor, which reduces the truncation or conversion of p35 to p25. Calpeptin and ALLM, inhibitors of a calcium-activated protease (calpain), completely inhibited the conversion of p35 to p25 in calcium-treated mouse brain lysate, indicating that calpain plays an important role in the conversion process.

ΙT 9001-66-5, Monoamine oxidase

> RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors; inhibition of protein p25 for treating neurodegenerative diseases)

9001-66-5 HCAPLUS RN

Oxidase, monoamine (9CI) (CA INDEX NAME) CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L10 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2000:15421 HCAPLUS

DOCUMENT NUMBER:

132:74506

TITLE:

Method for simultaneous identification of

differentially expressed mRNAs and measurement of

relative concentrations

PATENT ASSIGNEE(S):

Scripps Research Institute, USA; Sutcliffe, J. Gregor;

Erlander, Mark G.; Hasel, Karl W.

SOURCE:

PCT Int. Appl., 88 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND PATENT NO. DATE APPLICATION NO. DATE **----**____ _____ WO 2000000646 A1 20000106 WO 1999-US14940 19990630 <-- FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

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KIND
                                  DATE
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                                                                        DATE
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                                  _ _ _ _ _ _ _ _
     WO 2000000645
                                  20000106
                                             WO 1999-US14852
                                                                        19990630 <--
                           A1
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             DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,
             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
             UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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                                               US 1998-108099
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                                  20000801
                                                                         19980630 <--
     CA 2332339
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                                               CA 1999-2332339
                                                                        19990630 <--
                            AA
     AU 9948497
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                                                                        19990630 <--
     EP 1092044
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                                                                        19990630 <--
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                                  20020702
                                               JP 2000-556998
                                                                         19990630
     JP 2002519011
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PRIORITY APPLN. INFO.:
                                               US 1998-108099
                                                                     A 19980630
                                               US 1993-152482
                                                                     A3 19931112
                                               US 1995-544577
                                                                     A2 19951017
                                               US 1998-35109
                                                                     A2 19980305
                                               US 1998-35190
                                                                     A3 19980305
                                               WO 1999-US14852
                                                                     W 19990630
```

An improved method for the simultaneous sequence-specific identification of mRNAs in a mRNA population allows the visualization of nearly every mRNA expressed by a tissue as a distinct band on a gel whose intensity corresponds roughly to the concentration of the mRNA. In general, the method comprises the formation of cDNA using anchor primers to fix a 3'-endpoint, producing cloned inserts from the cDNA in a vector containing a bacteriophage-specific promoter for subsequent RNA synthesis, generating linearized fragments of the cloned inserts, preparing cRNA, transcribing cDNA from the cRNA using a set of 5'-RT primers, and performing PCR using a 3'-PCR primer whose sequence is derived from the vector and a set of 5'-PCR primers that is derived from the 5'-RT primers used for transcription of cDNA from cRNA. The method can identify changes in expression of mRNA associated with the administration of drugs or with physiol. or pathol. conditions.

IT 9001-66-5, Monoamine oxidase

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(mRNA expression pattern in response to inhibitors and stimulants of; improved method for simultaneous identification of differentially expressed mRNAs and measurement of relative concns.)

RN 9001-66-5 HCAPLUS

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:811389 HCAPLUS

DOCUMENT NUMBER: 132:59182

TITLE: Use of BCHE genotype in the prediction of whether

PATENT INFORMATION:

PATENT NO.					KIND DATE			APPLICATION NO.					DATE					
	WO	9832	 427			A1	-	 1998	 0730	1	WO 1	 998-1	US15	56		1	9980	 127 <
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			DK,	EE,	ES,	FI,	GB,	GE,	GH,	ΗU,	ΙL,	IS,	JP,	KE,	KG,	KΡ,	KR,	KZ,
			LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	ΝZ,	PL,
			PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	UA,	ŪĠ,	US,
			UZ,	VN,	YU,	ZW												
		RW:	GH,	GM,	ΚE,	LS,	MW,	SD,	SZ,	ŪĠ,	ZW,	ΑT,	BE,	CH,	DE,	DK,	ES,	FI,
			FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,
			GΑ,	GN,	ML,	MR,	NE,	SN,	TD,	TG								
	US	6309	669			B1		2001	1030	1	US 1	997-	7897	34		1	9970	127
	ΑU	9863	175			A1		1998	0818		AU 1	998-	6317	5		1	9980	127 <
PRIO	RIT	Y APP	LN.	INFO	. :					1	US 1	997-	7897	34		A 1	9970	127
										1	US 1	984 -	5903	80	1	B1 1	9840	316
										1	US 1	992-	8673	01		A2 1	9920	410
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										1	US 1	995-	4461	49]	B2 1	9950	522
										1	US 1	996-	5909	73]	B2 1	9960	124
										1	WO 1	998-1	US15!	56	1	W 1	9980	127

Novel burst-free, sustained release biocompatible and biodegradable AB microcapsules are disclosed which can be programmed to release their active core for variable durations ranging from 1-100 days in an aqueous physiol. environment. The microcapsules are comprised of a core of polypeptide or other biol. active agent encapsulated in a matrix of poly(lactide/glycolide) copolymer, which may contain a pharmaceutically acceptable adjuvant, as a blend of upcapped free carboxyl end group and end-capped forms ranging in ratios from 100/0 to 1/99.

IT

50-55-5, Reserpine RL: BPR (Biological process); BSU (Biological study, unclassified); DEV (Device component use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(prevention of infections with bioactive material encapsulated within biodegradable-biocompatible polymeric matrix)

RN 50-55-5 HCAPLUS

CN Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5trimethoxybenzoyl)oxy]-, methyl ester, $(3\beta, 16\beta, 17\alpha, 18.beta)$ (20α) - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

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Pryor 09 887832
    PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                 DATE
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                                           ______
                                                                 -----
    US 5668117
                         Α
                               19970916
                                          US 1993-62201
                                                                 19930629 <--
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                         AA
                               19950112
                                          CA 1994-2166383
                                                                 19940628 <--
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    WO 9501096
                         A1
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                                          WO 1994-US7277
        W: AU, CA, JP
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
    AU 9472144
                         A1
                               19950124
                                          AU 1994-72144
                                                                 19940628 <--
    AU 692454
                         B2
                               19980611
    EP 707446
                        A1
                               19960424
                                          EP 1994-921405
                                                                 19940628 <--
        R: DE, FR, GB, IT
                        T2
                               19961217
                                          JP 1994-503597
                                                                 19940628 <--
    JP 08512055
    US 6746678
                         В1
                               20040608
                                           US 2000-545870
                                                                 20000406
PRIORITY APPLN. INFO.:
                                           US 1991-660561
                                                             B1 19910222
                                                              B2 19930223
                                           US 1993-26617
                                                             A 19930629
                                           US 1993-62201
                                                             W 19940628
                                           WO 1994-US7277
                                           US 1997-883290
                                                             B2 19970626
OTHER SOURCE(S):
                        MARPAT 127:288186
    Therapeutic compns. comprising an effective amount of at least one carbonyl
    trapping agent alone or in combination with a therapeutically effective of
    a co-agent or medicament are disclosed. The compns. are used to treat a
    mammal suffering from a neurol. disease characterized by covalent bond
    crosslinking between the nerve cells, other cellular structures and their
    intracellular and extracellular components, with disease-induced
    carbonyl-containing aliphatic or aromatic hydrocarbons present in mammals.
TT
    9001-66-5
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
```

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(A and B, inhibitors; carbonyl trapping agent combination with other
drug for treatment of neurol. diseases and etiol. related symptomol.)
9001-66-5 HCAPLUS

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L10 ANSWER 13 OF 19 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:417857 HCAPLUS

DOCUMENT NUMBER: 125:76407

TITLE: Treatment of multiple sclerosis

(MS) and other demyelinating conditions using lofepramine in combination with L-phenylalanine, tyrosine or tryptophan and possibly a vitamin B12

compound

INVENTOR(S): Loder, Cari

PATENT ASSIGNEE(S): UK

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

RN

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<i></i>				
(WO 9611009	A1	19960418	WO 1995-GB2361	19951005 <
W: AM, AT, AU	, BB, BG	, BR, BY,	CA, CH, CN, CZ, DE,	DK, EE, ES, FI,
GB, GE, HU	, IS, JP	, KE, KG,	KP, KR, KZ, LK, LR,	LT, LU, LV, MD,
MG, MN, MW	, MX, NO	, NZ, PL,	PT, RO, RU, SD, SE,	SG, SI, SK, TJ,
TM, TT				
RW: KE, MW, SD	. SZ. UG	, AT, BE,	CH, DE, DK, ES, FR.	GB. GR. IE. IT.

FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

WO 9513369 A1 19950518 WO 1994-US13041 19941114 <	PAT				APPLICATION NO.	DATE
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE US 5459037 A 19951017 US 1993-152482 19931112 < CA 2174966 AA 19950518 CA 1994-2174966 19941114 < AU 9510551 A1 19950529 AU 1995-10551 19941114 < AU 687127 B2 19980219 EP 726946 B1 20031001 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE JP 09509306 T2 19970922 JP 1994-514039 19941114 FI 9602000 A 19960510 FI 1996-2000 NO 9601902 A 19960510 FI 1996-2000 AU 9867110 AI 19980709 AU 1998-67110 AU 718304 B2 20000413 US 6633818 B1 20031014 US 2002127571 A1 20020912 US 2001-965561 US 2003092006 A1 20030515 US 2003092006 A1 20030515 US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	WO	9513369	A1	19950518		19941114 <
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CA 2174966 AA 19950518 CA 1994-2174966 19941114 < AU 9510551 A1 19950529 AU 1995-10551 19941114 < AU 687127 B2 19980219 EP 726946 A1 19960821 EP 1995-901229 19941114 < EP 726946 B1 20031001 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, S JP 09509306 T2 19970922 JP 1994-514039 19941114 < AT 251220 E 20031015 AT 1995-901229 19941114 FI 9602000 A 19960510 FI 1996-2000 19960510 < NO 9601902 A 19960712 NO 1996-1902 19960510 < AU 9867110 A1 19980709 AU 1998-67110 19980519 < AU 718304 B2 20000413 US 6633818 B1 20031014 US 2000-630202 20000801 US 2002127571 A1 20020912 US 2001-965561 20010925 US 2003092006 A1 20030515 US 2001-964597 20010925 IORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305						
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EP 726946 EP 726946 B1 20031001 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, S JP 09509306 T2 19970922 JP 1994-514039 19941114 FI 9602000 A 19960510 FI 1996-2000 NO 9601902 A 19960712 NO 1996-1902 AU 9867110 A1 19980709 AU 1998-67110 B2 20000413 US 6633818 B1 20031014 US 2002127571 A1 20020912 US 2003092006 A1 20030515 US 2003092006 A1 20030515 US 2001-964597 CORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305						
EP 726946 EP 726946 B1 20031001 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, S JP 09509306 T2 19970922 JP 1994-514039 19941114 AT 251220 E 20031015 AT 1995-901229 19941114 FI 9602000 A 19960510 FI 1996-2000 19960510 NO 9601902 A 19960712 NO 1996-1902 AU 9867110 A1 19980709 AU 1998-67110 19980519 AU 718304 B2 20000413 US 6633818 B1 20031014 US 2000-630202 20000801 US 2002127571 A1 20020912 US 2001-965561 20010925 CORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	AU	687127	B2	19980219		
EP 726946 B1 20031001 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, S JP 09509306 T2 19970922 JP 1994-514039 19941114 < AT 251220 E 20031015 AT 1995-901229 19941114 FI 9602000 A 19960510 FI 1996-2000 19960510 < NO 9601902 A 19960712 NO 1996-1902 19960510 < AU 9867110 A1 19980709 AU 1998-67110 19980519 < AU 718304 B2 20000413 US 6633818 B1 20031014 US 2000-630202 20000801 US 2002127571 A1 20020912 US 2001-965561 20010925 US 2003092006 A1 20030515 US 2001-964597 20010925 CORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305					EP 1995-901229	19941114 <
JP 09509306 T2 19970922 JP 1994-514039 19941114 <						
JP 09509306 T2 19970922 JP 1994-514039 19941114 <		R: AT, BE, C	I, DE, D	K, ES, FR,	GB, GR, IE, IT, LI,	LU, MC, NL, PT, SE
FI 9602000 A 19960510 FI 1996-2000 19960510 <	JP	09509306	T2	19970922	JP 1994-514039	19941114 <
FI 9602000 A 19960510 FI 1996-2000 19960510 <	ΑT	251220	E	20031015	AT 1995-901229	19941114
NO 9601902 A 19960712 NO 1996-1902 19960510 <- AU 9867110 A1 19980709 AU 1998-67110 19980519 <- AU 718304 B2 20000413 US 6633818 B1 20031014 US 2000-630202 20000801 US 2002127571 A1 20020912 US 2001-965561 20010925 US 2003092006 A1 20030515 US 2001-964597 20010925 ORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	FI	9602000	Α	19960510	FI 1996-2000	19960510 <
AU 9867110 A1 19980709 AU 1998-67110 19980519 < AU 718304 B2 20000413 US 6633818 B1 20031014 US 2000-630202 20000801 US 2002127571 A1 20020912 US 2001-965561 20010925 US 2003092006 A1 20030515 US 2001-964597 20010925 ORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	NO	9601902	Α	19960712	NO 1996-1902	19960510 <
US 6633818 B1 20031014 US 2000-630202 20000801 US 2002127571 A1 20020912 US 2001-965561 20010925 US 2003092006 A1 20030515 US 2001-964597 20010925 ORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	AU	9867110	A1	19980709	AU 1998-67110	19980519 <
US 2002127571 A1 20020912 US 2001-965561 20010925 US 2003092006 A1 20030515 US 2001-964597 20010925 ORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	AU	718304	B2			
US 2003092006 A1 20030515 US 2001-964597 20010925 ORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	US	6633818	B1	20031014	US 2000-630202	20000801
ORITY APPLN. INFO.: US 1993-152482 A 19931112 WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	US	2002127571	A1	20020912	US 2001-965561	20010925
WO 1994-US13041 W 19941114 US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	US	2003092006	A1	20030515	US 2001-964597	20010925
US 1995-544577 A2 19951017 US 1998-35109 A2 19980305	ORITY	APPLN. INFO.:			US 1993-152482	A 19931112
US 1998-35109 A2 19980305					WO 1994-US13041	W 19941114
					US 1995-544577	A2 19951017
110 1000 25100 32 10000205					US 1998-35109	A2 19980305
US 1998-35190 A3 19980305					US 1998-35190	A3 19980305
US 1998-108099 A1 19980630					US 1998-108099	A1 19980630
US 1999-316349 A3 19990521					US 1999-316349	A3 19990521

An improved method for the simultaneous sequence-specific identification of mRNAs in an mRNA population allows the visualization of nearly every mRNA expressed by a tissue as a distinct band on a gel whose intensity corresponds roughly to the concentration of the mRNA. In general, the method comprises the formation of cDNA using anchor primers to fix a 3'-endpoint, producing cloned inserts from the cDNA in a vector containing a bacteriophage-specific promoter for subsequent RNA synthesis, generating linearized fragments of the cloned inserts, preparing cRNA, transcribing cDNA from the cRNA using a set of primers, and performing PCR using a 3'-primer whose sequence is derived from the vector and a set of 5'-primers that is derived from the primers used for transcription of cDNA from cRNA. The method can identify changes in expression of mRNA associated with the administration of drugs or with physiol. or pathol. conditions.

IT 9001-66-5, Monoamine oxidase

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors of; method for identifying changes in mRNA expression associated with administration of drugs or with physiol. or pathol. conditions)

RN 9001-66-5 HCAPLUS

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L10 ANSWER 15 OF 19 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:645253 HCAPLUS

DOCUMENT NUMBER: 123:25688

TITLE: R-enantiomer of N-propargyl-1-aminoindan, salts,

compositions, and uses in treatment of nervous

disorders

DOCUMENT NUMBER:

122:152

TITLE:

Selective MAO-A and B inhibitors, radical

scavengers and nitric oxide synthase inhibitors in

Parkinson's disease

AUTHOR (S):

Youdim, Moussa B. H.; Lavie, Lena

CORPORATE SOURCE:

Dep. Pharmacol. Anatomy, Bruce Rappaport Fac.

Medicine, Haifa, Israel

SOURCE:

Life Sciences (1994), 55(25/26), 2077-82

CODEN: LIFSAK; ISSN: 0024-3205

PUBLISHER:

Elsevier

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

AB A review with 31 refs. In the absence of identification of either an endogenously or an exogenously derived dopaminergic neurotoxin, the most valid hypothesis currently envisaged for etiopathol. of Parkinson's disease (PD) is selective oxidative stress (OS) in substantia nigra (SN). Although OS is not proved, a significant body of evidence from studies on animal and Parkinsonian brain neurochem. supports it. This hypothesis is based on excessive formation of reactive oxygen species (O-2 and OH.) and demise of systems involved with scavenging or preventing the formation of such radicals from H2O2, generated as a consequence of dopamine oxidation (autoxidn. and deamination). Since MAO (monoamine oxidase) A and B are the major H2O2 generating enzymes in the SN,

oxidase) A and B are the major H2O2 generating enzymes in the SN, much attention has been paid to their selective inhibitors as symptomatic and neuroprotective agents in PD. Attention should also be given to radical scavengers (e.g. iron chelators, lipid peroxidative inhibitors and Vitamin E derivs.) as therapeutic neuroprotective agents in PD. This is considered valid since a significant elevation of iron is known to occur selectively in SN zone compacta and within the remaining melanized dopamine neurons of Parkinsonian brains. Although all the mechanism of iron induced oxygen free radical formation is not fully known there is no doubt that it participates with H2O2 (Fenton chemical) to generate cytotoxic hydroxyl radical (OH) and induce tissue OS and neurodegeneration in 6-hydroxydopamine model of PD. The dramatic proliferation of reactive amoeboid macrophages and microglia seen in SN of PD brains together with OS is highly compatible with an inflammatory process, similar to what has been observed in Alzheimer's disease and multiple sclerosis

brains. This has led us to examinate produce oxygen free radicals in illatter radical has been implicate neurons innervating the striatum reactive macrophages NO acts as a can synergize with dopamine oxida

IT 9001-66-5

RL: BSU (Biological study, unclas (A and B, inhibitors; selective radical scavengers and nitric disease)

RN 9001-66-5 HCAPLUS

CN Oxidase, monoamine (9CI) (CA INDI

*** STRUCTURE DIAGRAM IS NOT AVAILABLE

L10 ANSWER 17 OF 19 HCAPLUS COPYRIGH ACCESSION NUMBER: 1984:712 HCAP

DOCUMENT NUMBER:

100:712

TITLE: INVENTOR(S): Treatment of a Lieb, Julian .

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S., 4 pp.

HO

AB Exptl. allergic disease, may be disease, may be disease, may be complete Freund's adjute complete Freund's adjute complete Freund adjute complete Freund's adjute complete and carbidopa [73-22-3], and carbidopa

reserpine [50-55-5] which decreases it. All immunized animals treated with saline only died, and animals treated with reserpine died even more quickly. A significant proportion of animals treated with the other 3 drugs, alone or in combination, survived or lived longer than controls. If a possible blockade in I transmission in EAE and multiple sclerosis were demonstrated, these drugs may be useful in patients with multiple sclerosis

IT 50-55-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(serotonin of central nervous system response to, allergic encephalitis in relation to)

RN 50-55-5 HCAPLUS

CN Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3β,16β,17α,18.beta .,20α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L10 ANSWER 19 OF 19 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1965:457203 HCAPLUS

DOCUMENT NUMBER: 63:57203 ORIGINAL REFERENCE NO.: 63:10474e-g

TITLE: Histo-enzymic aspects of multiple

sclerosis

AUTHOR(S): Giacomo, Piero De

CORPORATE SOURCE: Osp. Psichiat. Provinciale S. Maria Della Pieta, Rome

SOURCE: Lavoro Neuropsichiat. (1964), 35(3), 413-32

DOCUMENT TYPE: Journal LANGUAGE: Italian

AB DPN diaphorase (I), monoamine oxidase (II), acid and

alkaline phosphatases, nonspecific esterase, and cholinesterase were determined on

cryostat sections in the study of a case of multiple sclerosis. Only I and to a lesser degree II showed any clear enzymic alteration in the foci. I in the affected sites showed an increase in the white substance of the activity of the "wall" of the focus with numerous astrocytic images and a decrease in the central part with the appearance of diffused granular formations, with only a slight number of glial elements visible. At certain points were observed characteristic

K.; Andrzejewski, W.

CORPORATE SOURCE: Institute of Biogenic Amines, Polish Academy of

Sciences Lodz, Pol.

SOURCE: Journal of Physiology and Pharmacology (2001

), 52(4, Pt. 1), 657-670 CODEN: JPHPEI; ISSN: 0867-5910

Polish Physiological Society

DOCUMENT TYPE: Journal LANGUAGE: English

AB Biochem. parameters of the histamine (HA) system were examined in both rat brain and stomach, after portocaval anastomosis (PCA). These tissues become rich in histamine after PCA. Immunocytochem. was used for brain histamine localisation. In addition to increased HA concns.,

monoamine oxidase B activity increased in both tissues.

In hypothalamus HA was 15 fold; in cerebral cortex and in stomach mucosa 2.8 and 2.5 fold of the corresponding controls, resp. MAO B

activity was increased by approx. 50% in brain and 100% in stomach. A significant, uneven increase in tele-methylhistamine

concentration was only found in the brain. In stomach mucosa higher histidine decarboxylase activity was found. PCA and sham rats **treated**

with an irreversible inhibitor of MAO B, FA-73, 0.5 mg/kg i.p., showed 24 h later greatly reduced MAO activity and doubled t-MeHA concentration in brain structures. The treatment had no effect on gastric mucosal

t-MeHA concentration and on urinary excretion of the t-MeHA metabolite, N-tele-methylimidazoleacetic acid. The HA rise in the stomach of PCA rats is associated with proliferation of histamine producing and storing cells (ECL cells) as demonstrated by others. However, in the brain we saw no indication for increased number of relevant cells either mast cells or neurons and our immunocytochem. findings suggest that in PCA rat

brain, histamine deposits are located exclusively in **neurons**. The data indicate that the adaptative mechanisms to excessive histamine formation are tissue specific.

IT 9001-66-5

PUBLISHER:

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(B; portocaval shunt in rat results in enhanced histamine synthesis in brain and gastric mucosa resulting in higher tissue amine content)

RN 9001-66-5 HCAPLUS CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 501-75-7

RL: BSU (Biological study, unclassified); BIOL (Biological study) (portocaval shunt in rat results in enhanced histamine synthesis in brain and gastric mucosa resulting in higher tissue amine content)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

$$N$$
 $CH_2-CH_2-NH_2$
 N
Me

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2001:467468 HCAPLUS

to increase both the release and metabolism of neuronal histamine (HA). Our studies investigated the effects of several new brain-penetrating H3 antagonists on rat cerebral cortical levels of the HA metabolite tele-methylhistamine (t-MH). Animals were pretreated with H3 antagonists (0.3 to 30 mg/kg; 1-4 h; i.p.) in the presence or absence of the monoamine oxidase inhibitor pargyline to prevent metabolism of t-MH. Cortical t-MH levels were measured by both RIA and gas chromatog.-mass spectrometry (GC-MS). Pargyline (60 mg/kg; 1 h; i.p.) produced an .apprx.2-fold increase in t-MH levels as measured by either GC-MS or RIA. Thioperamide (± pargyline) increased t-MH levels as measured by both GC-MS and RIA. In contrast, neither 5-cyclohexyl-1-(4-imidazol-4-ylpiperidyl)pentan-1-one (GT-2016) (± pargyline), 4-(6-cyclohexylhex-cis-3-enyl)imidazole (GT-2227) (± pargyline), nor clobenpropit (minus pargyline) increased t-MH levels as measured by GC-MS. A good agreement was found between t-MH levels as determined by either RIA or GC-MS except after treatment with GT-2016, which increased apparent t-MH brain levels according to the former but not the latter method. Subsequent studies suggest the in vivo formation of a GT-2016 metabolite, which can cross-react in the t-MH RIA. Although all H3 receptor antagonists studied to date seem capable of enhancing brain HA release, only thioperamide presently was found to enhance cortical t-MH levels. Thus, H3 receptor antagonists may differentially affect HA release and turnover, and brain t-MH levels may not be reliable predictors of H3 agonist, partial agonist, or antagonist in vivo activity.

IT 501-75-7

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(histamine H3 receptor antagonists effect on tele-

methylhistamine levels in cerebral cortex)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \begin{array}{c} \text{N} \\ \text{N} \end{array} \begin{array}{c} \text{CH}_2 - \text{CH}_2 - \text{NH}_2 \end{array}$$

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 4 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1998:153068 HCAPLUS

DOCUMENT NUMBER:

128:290489

TITLE:

 $R-(-)-\alpha$ -methyl-histamine has nitric

oxide-mediated vasodilator activity in the mesenteric

vascular bed of the cat

AUTHOR (S):

Champion, Hunter C.; Kadowitz, Philip J.

CORPORATE SOURCE: 1430 Tulane Avenue, School of Medicine, Department of

Pharmacology SL83, Tulane University, New Orleans, LA,

70112, USA

SOURCE:

European Journal of Pharmacology (1998),

343(2/3), 209-216

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

caused a reduction in arterial pressure, which was antagonized by famotidine, no pressor response being unmasked. Dimaprit (0.1-30 µmol/kg i.v.) did not modify heart rate but caused a modest bradycardia at 100 µmol/kg Amthamine (1-100 µmol/kg i.v.) induced a dose-dependent tachycardia, which was only partially (approx. 20%) reduced by famotidine and was totally blocked by propranolol (0.3 mg/kg i.v.). This effect was significantly reduced in rats pretreated with reserpine or 6-hydroxydopamine and was further reduced by cocaine, thus suggesting a tyramine-like action of amthamine. In conclusion, these data demonstrate that the H2 receptor agonist amthamine can also interact with the adrenergic system when used at doses higher than those necessary to activate H2 receptors. Whereas the increase in blood pressure induced by amthamine seems to be mainly mediated by a direct activation of postjunctional a2 adrenoceptors, the increase in heart rate is predominantly due to neuronal release of catecholamines. These effects should be considered when using amthamine in cardiovascular or other studies when high doses are employed.

L26 ANSWER 6 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:118482 HCAPLUS

DOCUMENT NUMBER: 124:250525

TITLE: Effects of the histamine H3 agonist

(R) $-\alpha$ -methylhistamine and the antagonist

thioperamide in vitro on monoamine oxidase activity in the rat brain

AUTHOR(S): Sakurai, E.; Sakurai, E.; Maeyama, K.; Watanabe, T.;

Jossan, S.S.; Oreland, L.

CORPORATE SOURCE: Department of Pharmaceutics I, Tohoku College of

Pharmacy, Sendai, Japan

SOURCE: Methods and Findings in Experimental and Clinical

Pharmacology (1995), 17 (Suppl. C), 46-50

CODEN: MFEPDX; ISSN: 0379-0355

PUBLISHER: Prous
DOCUMENT TYPE: Journal
LANGUAGE: English

The effects of an H3 agonist, (R)- α -methylhistamine (α -MeHA), and an H3 antagonist, thioperamide, on monoamine oxidase (MAO) activity in rat hypothalamus were studied in vitro. Thioperamide was more potent in inhibiting MAO-B than MAO-A activity; MAO-B activity in rat hypothalamic homogenates was competitively inhibited by thioperamide with a Ki value of 175 μM. From this in vitro experiment, the conversion of N-telemethylhistamine to N-tele-methylimidazoleacetic acid may be inhibited by thioperamide, suggesting that thioperamide may affect the regulation of histamine metabolism within histaminergic In contrast with the results obtained with thioperamide, α -MeHA inhibited MAO-A more potently than MAO-B activity; the Ki values for MAO-A and -B of hypothalamic homogenates were estimated to be 1.1 and 3.3 mM, resp. The weak inhibitory effect of α -MeHA for MAO-B does not seem to be a major cause of changes in N-telemethylhistamine concns.

IT 501-75-7 9001-66-5, Monoamine oxidase

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(effects of the histamine H3 agonist $(R)-\alpha$ -methylhistamine and the antagonist thioperamide in vitro on monoamine oxidase activity in the rat brain)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

distribution of MAO-B in human brain by autoradiog. use of 11C-L-deprenyl was high in the caudate nucleus, putamen, thalamus, and substantia nigra. The half-life for the turnover rate of MAO-B in pig brain by positron emission tomog. using 11C-L-deprenyl was calculated to be 6.5 days. The relation between serotonin and dopamine uptake rates, monoamine concns. and MAO activities was estimated in various regions of rat brain. Of main interest is the finding that MAO activities in general (conventional method) were pos. correlated to serotonin uptake rates and to intra-5-HT-synaptosomal MAO, but not to dopamine uptake rates or intra-DA-synaptosomal MAO activities. An inhibition of MAO-B of more than 40% was required to reduce the MPTP toxicity and it was completely prevented at about 60% MAO inhibition. Moreover, although MPTP toxicity in relation to age, dopamine uptake and MAO activity was investigated in two rodent species, MAO-B activity was not the rate-limiting step for MPTP neurotoxicity. Histamine H3-ligands inhibited the conversion of N-tele-methylhistamine to N-tele-methylimidazoleacetic acid by MAO-B in the rat brain. The oxidation of racemic chlorpheniramine was catalyzed by mitochondrial MAO of rat Moreover, there was a stereoselective difference in oxidative deamination of chlorpheniramine by MAO-A and -B.

IT 9001-66-5, Monoamine oxidase

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(B, amine metabolism by and specificity of monoamine oxidase of mitochondria of brain of human and laboratory animals)

RN 9001-66-5 HCAPLUS

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 501-75-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(N-telemethylimidazoleacetic acid formation from methylhistamine by brain monoamine oxidase inhibition by histaminergic H3 ligands)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

L26 ANSWER 9 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:157791 HCAPLUS

DOCUMENT NUMBER: 120:157791

TITLE: Identification of unusual polyamines by the combined

use of high-performance liquid chromatography and

polyamine-metabolizing enzymes

AUTHOR(S): Matsuzaki, Shigeru; Hamana, Koei; Okada, Masato;

Isobe, Kimiyasu

CORPORATE SOURCE: Sch. Med., Dokkyo Univ., Mibu, 321-02, Japan

SOURCE: Dokkyo Journal of Medical Sciences (1992),

19(2), 117-24

CODEN: DJMSDB; ISSN: 0385-5023

acid (HVA) were more than doubled. The net increase in t-MeHA concentration in response to pargyline (80 mg/kg i.p.) was almost the same for PCA and sham-operated rats. This implies that the great enhancement of the histamine level in this area might be a consequence of the persistent stimulation of its synthesis and the unchanged activity of histaminergic neurons. In the rest of the brain, the steady-state level of t-MeHA was higher after PCA (3.8-fold), as were the levels of 5-HIAA and Surprisingly, t-MeHA remained unchanged after monoamine oxidase blockade. Of the pargyline-induced alterations in the concns. of indoles and catechols, the most pronounced were those in the 5-HT level; 5-HT was elevated >2-fold in hypothalamus and >12-fold in the rest of the brain, with a concomitant 80% decrease in 5-HIAA. dopamine and, to a much smaller extent, noradrenaline levels were also increased, and the levels of HVA and 3,4-dihydroxyphenylacetic acid fell below the detection limit. Apparently, at least 2 different mechanisms operate in the brains of PCA rats to counteract the excessive synthesis of neuromediators, e.g., increased deposition and increased metabolism 9001-66-5, MAO

RL: BIOL (Biological study)

(B, inhibition of, methylhistamine in brain and hypothalamus response to, portocaval shunting effect on, amine neurotransmitters in relation to)

RN 9001-66-5 HCAPLUS

IT

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 501-75-7, N-tele-Methylhistamine

RL: BIOL (Biological study)

(in brain and hypothalamus, portocaval shunting and MAO B inhibition effect on)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

N
 $^{CH_2-CH_2-NH_2}$ Me

L26 ANSWER 11 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:70063 HCAPLUS

DOCUMENT NUMBER: 120:70063

TITLE: Histamine inhibits spontaneous activity of the uterus

of the progesterone-treated rat

AUTHOR(S): Rubio, E.; Estan, L.; Morales-Olivas, F. J.;

Martinez-Mir, M. I.

CORPORATE SOURCE: Fac. Med. Odontol., Univ. Valencia, Valenica, 46010,

Spain

SOURCE: Journal of Autonomic Pharmacology (1993),

13(6), 395-402

CODEN: JAPHDU; ISSN: 0144-1795

DOCUMENT TYPE: Journal LANGUAGE: English

AB The effects of i.v. administered histamine, and its analogs, 4-methylhistamine and 2-pyridylethylamine, on the spontaneous activity of the progesterone-treated rat uterus were examined in vivo. The inhibitory effect of adrenaline was also studied. These agonists

deferentia preloaded with [3H] noradrenaline was investigated. overflow evoked by the various agonists was unaffected by the presence of such receptor agonists as propranolol, phentolamine, cimetidine, or scopolamine. On the other hand, the overflow evoked by all agonists except dimaprit was inhibited by mepyramine and by 2 well-known neuronal uptake inhibitors, cocaine and desipramine. The inhibition by mepyramine has been attributed to its effect on the neuronal uptake process. Metabolic profile studies showed that 3,4-dihydroxyphenylglycol (DOPEG) was the major constituent in the evoked overflow caused by histamine, 2-methylhistamine, 4-methylhistamine, and dimaprit and that the overflow evoked by 2-pyridylethylamine and 2-thiazolylethylamine consisted predominantly of unchanged noradrenaline. Based on these findings, it is concluded that all of the agonists tested evoke noradrenaline release intraneuronally by entering the adrenergic nerve terminals. While dimaprit might enter by passively diffusing into the adrenergic nerves, other agonists seem to use the neuronal uptake process. However, there are qual. and quant. differences in the metabolic profile of the overflow evoked by various agonists. These differences could arise from their addnl. properties, such as their effect on the neuronal uptake process and (or) their ability to act as a substrate for neuronal monoamine oxidase.

L26 ANSWER 14 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

1991:199557 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 114:199557

TITLE: Effect of reserpine on histamine metabolism

in the mouse brain

AUTHOR (S): Muroi, Nobuyuki; Oishi, Ryozo; Saeki, Kiyomi CORPORATE SOURCE: Med. Sch., Okayama Univ., Okayama, 700, Japan

Journal of Pharmacology and Experimental Therapeutics SOURCE:

(1991), 256(3), 967-72 CODEN: JPETAB; ISSN: 0022-3565

DOCUMENT TYPE: Journal LANGUAGE: English

The effect of reserpine on brain histamine (HA) metabolism was examined in mice. The level of tele-methylhistamine, a major metabolite of HA, was decreased dose-dependently by reserpine (1-5 mg/kg s.c.), whereas the HA level was unaffected. This effect was observed in all brain regions examined The accumulation of tele-methylhistamine induced by pargyline (65 mg/kg i.p.), an inhibitor of monoamine oxidase, was inhibited to 19% of the control value 24 h after the treatment with reserpine (5 mg/kg s.c.). The HA decrease induced by (S)- α -fluoromethylhistidine (50 mg/kg i.p.), a specific inhibitor of histidine decarboxylase, was not affected by pretreatment with reserpine (5 mg/kg s.c.) 1 or 24 h before. The HA increase induced by metoprine (10 mg/kg i.p.), an inhibitor of histamine N-methyltransferase, or by L-histidine (0.5-1.5 g/kg i.p.) was inhibited markedly by reserpine. This effect was more marked when reserpine was administered 1 h than 24 h before. The L-histidine-induced increase in HA levels was enhanced markedly by the simultaneous administration of metoprine in the control mice but not in the mice treated with reserpine 1 h before L-histidine injection. There may be both reserpine-resistant and reserpine-sensitive HA pools in histaminergic nerve endings and most of the neuronal HA in the brain may be located in the former pool. The capacity of the former pool may be limited and thus most of the increased HA by L-histidine and metoprine may be transferred into the latter pool. The reserpine-sensitive pool

SOURCE: Brain Research (1990), 521(1-2), 125-30

CODEN: BRREAP; ISSN: 0006-8993

DOCUMENT TYPE: Journal LANGUAGE: English

AB The effects of morphine on the levels of histamine (HA), its metabolite

tele-methylhistamine (t-MH) and on t-MH synthesis rates (thought to be indicative of neuronal HA release) were investigated in brain regions and spinal cords of DBA/2J (DBA) and C57/BL6

(C57) mice, two strains known to differ in their sensitivity to morphine. In DBA (a strain highly sensitive to morphine antinociception), morphine (10 mg/kg, s.c.) had no effect on brain regional t-MH or HA levels, but produced a generalized inhibition of regional t-MH synthesis rates ranging

from 11 to 53%. The monoamine oxidase (MAO) inhibitor

pargyline (used to estimate t-MH synthesis rates) had no effect on HA or t-MH levels in the DBA or C57 spinal cord, indicating the absence of detectable spinal HA turnover. Morphine (10 mg/kg) had no effect on DBA or C57 spinal cord HA or t-MH levels, but significantly increased t-MH synthesis

spinal cord HA or t-MH levels, but significantly increased t-MH synthesis in the DBA but not in the C57 spinal cord. These results suggest that in DBA mice, antinociceptive doses of morphine inhibit HA release in brain, and promote the release of HA from spinal cord. Neither effect was found in C57 mice, which are resistant to morphine antinociception. The relevance of these actions to previous studies showing the blockade of opiate antinociception by H2 antagonists remains to be established.

501-75-7, tele-Methylhistamine

RL: BIOL (Biological study)

(as histamine metabolite, in brain vs. spinal cord, morphine effect on)

RN 501-75-7 HCAPLUS

TΤ

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

L26 ANSWER 16 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:787 HCAPLUS

DOCUMENT NUMBER: 112:787

TITLE: Sensitive radioimmunoassays for histamine and

tele-methylhistamine in the brain

AUTHOR(S): Garbarg, M.; Pollard, H.; Trung Tuong, My Dam;

Schwartz, J. C.; Gros, C.

CORPORATE SOURCE: Unite Neurobiol. Pharmacol., Cent. Paul Broca, Paris,

75014, Fr.

SOURCE: Journal of Neurochemistry (1989), 53(6),

1724-30

CODEN: JONRA9; ISSN: 0022-3042

DOCUMENT TYPE: Journal LANGUAGE: English

AB Serum albumin conjugates of histamine or tele-

methylhistamine, a major catabolite, were prepared using

1,4-benzoquinone as the coupling agent and were used to raise polyclonal antibodies in rabbits. The same reagent was used to prepare the [125I]iodinated tracer and **treat** tissue exts. submitted to the RIAs. The IC50 values of prederivatized histamine and **tele**-

methylhistamine in the RIAs were 0.3 nM and 0.5 nM, resp., whereas

kappa-selective opioid agonist U-50,488H produced a dose-dependent increase in gastric acid secretion after i.v. but not i.c.v. administration. Other kappa-selective agonists tested did not produce a significant increase in gastric acid secretion after i.c.v. or i.v. administration. The increase in gastric acid secretion produced by U-50,488H was blocked by treatment with the opioid receptor antagonist naloxone, the nonselective muscarinic receptor antagonist atropine, and the M1 selective muscarinic receptor antagonist pirenzepine. The secretory effects of U-50,488H were not blocked by pretreatment with the ganglionic blocker hexamethonium, the H2 receptor antagonist metiamide, reserpine, or the sep. or combined action of the alpha and beta adrenergic receptor antagonists phentolamine and propranolol, resp. Thus, stimulation of central and possibly peripheral mu opioid receptors in rats apparently decreases gastric acid secretion, whereas delta opioid receptors are not involved in the mediation of gastric acid secretion. U-50,488H, a kappa-selective opioid agonist, may increase gastric acid secretion by a mechanism which involves the local release of acetylcholine acting on M1 receptors on the parietal cell to secrete acid.

L26 ANSWER 18 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1986:530279 HCAPLUS

DOCUMENT NUMBER: 105:130279

TITLE: Electrostatic potential comparison and molecular

metric spaces

AUTHOR (S): Carbot, Ramon; Sune, Eduard; Lapena, Felix; Perez,

Jose

Dep. Quimiometria, Inst. Quim. Sarria, Barcelona, CORPORATE SOURCE:

08017, Spain

Journal of Biological Physics (1986), 14(1), SOURCE:

21 - 8

CODEN: JBPHBZ; ISSN: 0092-0606

Journal DOCUMENT TYPE: English LANGUAGE:

A possible definition of a metric associated with a set of electrostatic mol. potentials was analyzed in relation to pharmacol. or biol. activities of substances and methods of studying those properties.

Examples of its application to HCHO and analogous structures and to monoamine oxidase substrates are presented.

501-75-7 IT

RL: PRP (Properties)

(electrostatic potential and mol. metric space of, monoamine oxidase in relation to)

501-75-7 HCAPLUS RN

1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME) CN

IT 9001-66-5

RL: ANST (Analytical study)

(substrates of, electrostatic potential and mol. metric space of)

RN 9001-66-5 HCAPLUS

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

ones. The inhibitors could potentiate food poisoning caused by histamine by inhibiting its metabolism

IT 501-75-7

RL: BIOL (Biological study)

(histamine metabolite, formation of, pharmacol. and food

borne inhibitors effect on)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

L26 ANSWER 21 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:97268 HCAPLUS

DOCUMENT NUMBER: 100:97268

TITLE: Histamine turnover in regions of rat brain

AUTHOR(S): Hough, Lindsay B.; Khandelwal, J. K.; Green, Jack

Peter

CORPORATE SOURCE: Mt. Sinai Sch. Med., City Univ. New York, New York,

NY, 10029, USA

SOURCE: Brain Research (1984), 291(1), 103-9

CODEN: BRREAP; ISSN: 0006-8993

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Rapid and complete inhibition of monoamine oxidase by

pargyline produced linear increases in the content of the histamine

[51-45-6] metabolite tele-methylhistamine (t-MH) [

501-75-7] in 9 regions of rat brain 2 and 4 h after drug

administration. The treatment had little or no effect on the

histamine content of these regions. As histamine methylation is the major metabolic pathway of histamine in the brain, the rate of increase in brain

t-MH content after complete inhibition of its metabolism provides an estimate of

histamine turnover. Histamine turnover rates varied >46-fold among regions, from cerebellum (0.029 nmol/g/h) to hypothalamus (1.33 nmol/g/h), similar to reports for norepinephrine and serotonin. Turnover rates were highly correlated with control t-MH levels and control histamine levels. Rate consts. were highest in the caudate nucleus and frontal cortex, equivalent to a half-life of .apprx.11 min in these regions. Although hypothalamic histamine had the highest turnover rate, the rate constant for histamine in this region was among the lowest in the brain, perhaps consistent with the presence of histaminergic cell bodies. Histamine turnover rates may be indicative of the activity of histamine-synthesizing neurons, and its determination will facilitate

IT 501-75-7

RL: BIOL (Biological study)

understanding of histamine in the brain.

(of brain regions, histamine metabolism in relation to)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

DOCUMENT NUMBER:

98:84038

TITLE: AUTHOR (S): Effect of yohimbine on rat prolactin secretion Meltzer, Herbert Y.; Simonovic, Miljana; Gudelsky,

Gary A.

CORPORATE SOURCE:

Pritzker Sch. Med., Univ. Chicago, Chicago, IL, 60637,

USA

SOURCE:

Journal of Pharmacology and Experimental Therapeutics

(1983), 224(1), 21-7

CODEN: JPETAB; ISSN: 0022-3565

DOCUMENT TYPE:

Journal

English LANGUAGE:

[146-48-5] produced marked, dose-dependent, and sustained yohimbine (YOH) AB increases in plasma prolactin (PRL) [9002-62-4] levels in male rats. However, YOH did not block the inhibitory effect of dopamine (DA) [51-61-6] on PRL release from rat pituitary glands in vitro, did not displace 3H-labeled spiperone [749-02-0] from bovine pituitary membranes, and had no effect on the concentration of DA in pituitary stalk plasma of anesthetized rats, suggesting that the stimulation of PRL release by YOH is not due to its antidopaminergic effects. Clonidine, an α-adrenergic agonist, produced a partial, non-dose-dependent inhibition of the YOH-induced rise in serum PRL levels. Two antagonists of the H1 histamine [51-45-6] receptor, diphenhydramine and promethazine, markedly antagonized the PRL-releasing effect of YOH, but another H1 blocker, chlorpheniramine, and an H2 antagonist, metiamide, had no effect. serotonin [50-67-9] Receptor blockers, cyproheptadine, mianserin, and pizotifen, and the opiate antagonist, naloxone, also had no effect on the PRL response to YOH. Nevertheless, the PRL-releasing effect of YOH was potentiated 24 h after the administration of reserpine or p-chlorophenylalanine, an inhibitor of serotonin synthesis. Thus, the mechanisms by which YOH stimulates rat PRL secretion have not been fully elucidated. It is possible that YOH may stimulate PRL secretion by a novel mechanism, possibly through the intervention of a PRL-releasing factor.

L26 ANSWER 24 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1983:46883 HCAPLUS

DOCUMENT NUMBER:

98:46883

TITLE:

Effects of pargyline on tele-

methylhistamine and histamine in rat brain

AUTHOR (S):

Hough, Lindsay B.; Khandelwal, Jai K.; Green, Jack

Peter

CORPORATE SOURCE:

Mt. Sinai Sch. Med., City Univ. New York, New York,

NY, 10029, USA

SOURCE:

Biochemical Pharmacology (1982), 31(24),

4074-6

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE:

Journal

LANGUAGE:

English

In rats rapid and complete inhibition of brain monoamine oxidase (MAO) [9001-66-5] by pargyline [555-57-7] produced linear increases in brain tele-methylhistamine [501-75-7] levels from 30 min to 4 h after drug treatment at 0.26 nmole/g/h resulting in a 3-fold increase which persisted for at least 12 h. histamine (HA) [51-45-6] levels were slightly elevated 1 and 2 h after drug administration but quickly returned to control levels, suggestive of sensitive regulatory mechanisms in brain. Although the slight change in HA levels precludes steady-state assumptions, the rate of increase in brain t-MH levels after MAO inhibition provides a novel estimate of the half-life of endogenous brain HA (50 min). Despite the transient effect of pargyline

β-blocking agents metoprolol [37350-58-6] (cardioselective) or Th 326 [83764-80-1] (non-cardioselective) during the whole postinfarction period. A reduction of infarct size could be established for metoprolol (-33%), for reserpine (-27%), and for Th 326 (-14%). Apparently, the abnormalities observed in the non-ischemic surviving myocardium are the result of a specific damage of sarcolemmal β-receptors due to post-MI excessive levels of circulating catecholamines. This impairment can be effectively prevented by treatment with β-blocking agents. Furthermore, the possible risk of β-blocker-induced heart failure can be avoided if cardiac contractility is stimulated via the H2-receptor-adenylate cyclase system which was found to exist in the human myocardium as well with very similar receptor kinetics and properties.

IT 50-55-5

RL: BIOL (Biological study)

(heart infarct size minimization by, catecholamine-induced β -adrenergic receptor damage in relation to)

RN 50-55-5 HCAPLUS

CN Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, $(3\beta,16\beta,17\alpha,18.beta.,20\alpha)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L26 ANSWER 26 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:455218 HCAPLUS

DOCUMENT NUMBER: 95:55218

TITLE: Pharmacological investigations into the

effects of histamine and histamine analogs on guinea

pig and rat uterus

AUTHOR(S): Goyal, Ramesh K.; Verma, Subhash C.

CORPORATE SOURCE: Dep. Pharmacol., I. M. Coll. Pharm., Ahmedabad,

380009, India

SOURCE: Agents and Actions (1981), 11(4), 312-17

CODEN: AGACBH; ISSN: 0065-4299

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

elevated levels of SAM.

IT 9001-66-5

RL: BIOL (Biological study)

(B, of brain in histamine catabolism, adenosylmethionine effect on)

RN 9001-66-5 HCAPLUS

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 501-75-7

RL: FORM (Formation, nonpreparative)

(formation of, from histamine by brain, adenosylmethionine effect on)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

L26 ANSWER 28 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1980:465027 HCAPLUS

DOCUMENT NUMBER:

93:65027

TITLE:

Determination of urinary methylhistamine excretion in

male and female rats by gas chromatography with

electron-capture detection

AUTHOR (S):

Doshi, Pravin S.; Edwards, David J.

CORPORATE SOURCE:

Sch. Dent. Med., Univ. Pittsburgh, Pittsburgh, PA,

15261, USA

SOURCE:

Life Sciences (1980), 26(23), 1947-53

CODEN: LIFSAK; ISSN: 0024-3205

DOCUMENT TYPE:

LANGUAGE:

Journal English

AB A gas-liquid chromatog. method for the determination of methylhistamine in urine is

described. Methylhistamine is reacted with 2,6-dinitro-4-trifluoromethylbenzenesulfonic acid and the derivative thus formed is quantitated with electron-capture detection. The 24-h urinary excretion of methylhistamine in the male rat is .apprx.5-fold greater than that in the female rat. Aminoguanidine, a diamine oxidase inhibitor, causes a 4-5-fold increase in methylhistamine excretion in both male and female rats. Treatment with pargyline, a monoamine

oxidase inhibitor, causes only a small increase in methylhistamine excretion in male and female rats, thereby suggesting that oxidative deamination of methylhistamine is a relatively minor pathway.

IT 501-75-7

RL: ANT (Analyte); ANST (Analytical study)

(determination of, in urine anal. by gas chromatog. with electron-capture detection)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

The ulcerogenic and secretogenic properties of betazole-HCl (I) AB [138-92-1] (a histaminic H2 agonist) and [50-55-5] on pig stomachs were studied. I reserpine (50 mg/body) and reserpine (0.02 mg/kg) were successively injected (i.m.) daily for 5-10 days into starved animals. Gastroesophageal ulcers, pathol. similar to naturally occurring ulcers, were observed in all pigs whether a nutrient solution (5% glucose, 1L/day) was supplied or not. In starved pigs given either I or reserpine, only a small ulcer or erosion was observed In 4 pigs given com. mash at a rate of 3% of body weight/day and killed on the 6th or 10th day of successive injections of both drugs, the incidence of ulcers was 2/4. gastric secretogenc effect of I and/or reserpine was confirmed in pigs with Heidenhain gastric pouches. From these data, a new method for the exptl. induction of pig gastroesophageal ulcers by simultaneous injections of I and reserpine for 5 days under the nutrient (glucose solution) drinking condition, is proposed. This method may be superior to the repository histamine method, with respect to the absence of adverse effects, practical convenience, and pathol. and etiol. similarities with naturally occurring ulcers.

IT 50-55-5

RL: BIOL (Biological study)

(esophagogastric ulcer from betazole and)

RN 50-55-5 HCAPLUS

CN Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, $(3\beta,16\beta,17\alpha,18.beta.,20\alpha)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L26 ANSWER 31 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1979:201109 HCAPLUS

DOCUMENT NUMBER: 90:201109

TITLE: Tele-Methylhistamine oxidation by

type B monoamine oxidase

AUTHOR(S): Hough, Lindsay B.; Domino, Edward F.

CORPORATE SOURCE: Dep. Pharmacol., Univ. Michigan, Ann Arbor, MI, USA SOURCE: Journal of Pharmacology and Experimental Therapeutics

(1979), 208(3), 422-8

CODEN: JPETAB; ISSN: 0022-3565

DOCUMENT TYPE: Journal

decarboxylase [9024-61-7] inhibitors. Urinary methylhistamine [501-75-7] excretion was increased .apprx.3-fold in rats treated simultaneously with the histaminase inhibitor aminoguanidine [79-17-4] and the monoamine oxidase inhibitor pargyline [555-57-7], thus providing a high base-line against which inhibition of methylhistamine formation, and hence of histamine [51-45-6] formation, could be measured. Variations in the recovery of methylhistamine were compensated for by addition of a standard amount of radioactive methylhistamine to each urine sample. The method has the advantage over previously described methods of requiring less radioactive material and fewer animals which, moreover, do not have to be killed and so can be re-used. In addition, the time course of inhibition can be assessed.

IT 501-75-7

RL: ANT (Analyte); ANST (Analytical study) (determination of, in urine, histidine decarboxylase inhibitors in relation

to)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

L26 ANSWER 33 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1978:186766 HCAPLUS

DOCUMENT NUMBER: 88:186766

TITLE: Methylhistamine. Evidence for selective deamination

by MAO B in the rat brain in vivo

AUTHOR(S): Waldmeier, P. C.; Feldtrauer, J. J.; Maitre, L.

CORPORATE SOURCE: Res. Dep., Ciba-Geigy Ltd., Basel, Switz. SOURCE: Journal of Neurochemistry (1977), 29(5),

785-90

CODEN: JONRA9; ISSN: 0022-3042

DOCUMENT TYPE: Journal LANGUAGE: English

AB Solvent extraction and subsequent thin-layer chromatog. showed that after intracisternal injection of labeled histamine into rat brain 40-3% of the label was detected as methylhistamine (I) and 28-30% was methylimidazoleacetic acid (II). Deprenil and pargyline (50 mg/kg, s.c.) increased I levels ≤150% and decreased II levels to 10% of controls; clorgyline (≤10 mg/kg, s.c.) had no effect on I and II levels. Recovery from pargyline occurred within 21 days and the half-lives observed with I and II were 5.3 and 5.6 days resp. I is metabolized selectively by monoamine oxidase B and may be a more selective substrate than phenylethylamine.

IT 9001-66-5

RL: BIOL (Biological study)

(B, of brain, methylhistamine deamination by)

RN 9001-66-5 HCAPLUS

CN Oxidase, monoamine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 501-75-7

RL: RCT (Reactant); RACT (Reactant or reagent)

increased the concns. of 14C-labeled histamine and methylhistamine [501-75-7] 2 hr after intracerebral injection of histamine-14C. Imipramine [50-49-7], reduced the levels of labeled histamine. None of the drugs tested, however, increased the levels of labeled histamine 30 min after intracerebral injection of L-histidine [71-00-1]. 501-75-7

IT

RL: FORM (Formation, nonpreparative) (formation of, from histamine, by brain, psychoactive drugs effect on)

501-75-7 HCAPLUS RN

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

IT 50-55-5

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (histamine metabolism by brain response to)

50-55-5 HCAPLUS RΝ

CN Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5trimethoxybenzoyl)oxy]-, methyl ester, $(3\beta, 16\beta, 17\alpha, 18.beta)$ (20α) - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

HCAPLUS COPYRIGHT 2006 ACS on STN L26 ANSWER 36 OF 40

1972:121760 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 76:121760

TITLE: Catabolism of [3H]-histamine in the rat brain after

intracisternal administration

AUTHOR (S): Schwartz, Jean Charles; Pollard, Helene; Bischoff,

Serge; Rehault, Marie C.; Verdiere-Sahuque, Martine

CORPORATE SOURCE: Lab. Biochim., Hop. Broca, Paris, Fr.

SOURCE: European Journal of Pharmacology (1971),

16(3), 326-35

of histidine decarboxylase, failed to affect histamine catabolism. There was no evidence of parallelism between the histamine-destroying enzymes and the histamine-forming enzyme, histidine decarboxylase, either in distribution or ability to undergo changes in activity. No support was obtained for the view that histamine-catabolizing enzymes play a role in the local **control** of responses to newly formed histamine.

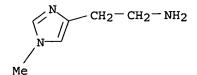
IT 501-75-7

RL: BIOL (Biological study)

(histamine metabolism inhibition by)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)



L26 ANSWER 38 OF 40 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1970:484266 HCAPLUS

DOCUMENT NUMBER: 73:84266

TITLE: Potentiation of responses to histamine in aortic

strips by steroids

AUTHOR(S): Kalsner, Stanley

CORPORATE SOURCE: Dep. Pharmacol., Univ. Ottawa, Ottawa, Can.

SOURCE: Canadian Journal of Physiology and Pharmacology (

1970), 48(7), 443-9

CODEN: CJPPA3; ISSN: 0008-4212

DOCUMENT TYPE: Journal LANGUAGE: English

AB Responses to histamine were potentiated by 17β -estradiol in untreated and reserpine-treated aortic strips.

17β-Estradiol produced significantly greater potentiation after inhibition of diamine oxidase with iproniazid. Amodiaquine and quinidine, 2 known inhibitors of imidazole N-methyltransferase, enhanced responses to histamine and abolished the potentiating effect of 17β -estradiol. Also, contractions produced by histamine were not increased by amodiaquine or quinidine in the presence of 17β -estradiol. Responses to histamine were increased only slightly by testosterone and hydrocortisone, and these effects were also blocked by known inhibitors of N-methylation. Responses to 1,4-methylhistamine, the N-methylated metabolite of histamine, were not enhanced by 17β -estradiol or amodiaquine, and in only 1 of 6 strips by quinidine. Studies with the oil immersion technique indicated that imidazole N-methyltransferase is a major mechanism terminating the action of histamine in aortic strips. The rate of N-methylation was significantly decreased by amodiaquine, quinidine, and 17β -estradiol. It is concluded that the steroid hormones enhance responses of vascular tissue to histamine by inhibiting N-methylation. Contractions of rabbit ileum by histamine were not increased by 17β -estradiol, perhaps owing to a dominant depressant effect of the steroid on the amplitude of spontaneous contractions.

IT 501-75-7

RL: BIOL (Biological study)

(arteries response to, steroid potentiation of histamine action in relation to)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

Recrystn. of the dipicrate yielded only that of the 1,4-isomer, m. 216.5-17.5°; the 1,5-isomer dipicrate remained in solution Injection of 1-methyl-4-(β -aminoethyl)imidazole into mice resulted in oxidation of a major portion of the compound to 1-methylimidazole-4-acetic acid. Both compds. were determined quantitatively in urine by means of isotope dilution techniques. A study of the effect of inhibitors on this oxidation in intact mice indicated that diamine oxidase played little or no role. The enzyme involved was inhibited by a monoamine oxidase inhibitor.

IT 501-75-7, Imidazole, 4-(2-aminoethyl)-1-methyl-(preparation of)

RN 501-75-7 HCAPLUS

CN 1H-Imidazole-4-ethanamine, 1-methyl- (9CI) (CA INDEX NAME)

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? SHOW FILES
File 155:MEDLINE(R) 1951-2006/Feb 15
         (c) format only 2006 Dialog
File
       5:Biosis Previews(R) 1969-2006/Feb W2
         (c) 2006 BIOSIS
File 34:SciSearch(R) Cited Ref Sci 1990-2006/Feb W2
         (c) 2006 Inst for Sci Info
     71:ELSEVIER BIOBASE 1994-2006/Feb W2
File
         (c) 2006 Elsevier Science B.V.
File
     73:EMBASE 1974-2006/Feb 16
         (c) 2006 Elsevier Science B.V.
File 144: Pascal 1973-2006/Jan W4
         (c) 2006 INIST/CNRS
File 351:Derwent WPI 1963-2006/UD,UM &UP=200611
         (c) 2006 Thomson Derwent
File 357:Derwent Biotech Res. 1982-2006/Feb W3
         (c) 2006 Thomson Derwent & ISI
?
?
? DS
Set
       Items
               Description
               (MAO OR MAOA? OR MONOAMINE(2N)OXIDASE)
S1
       72709
S2
       154476
               MULTIPLE (2N) SCLEROSIS
S3
         133
               S1 AND S2
S4
          122
               RD (unique items)
S5
          42
               S4 NOT PY= (2006 OR 2005 OR 2004 OR 2003 OR 2002)
?
? T S5/3 AB/1-42
5/AB/1
            (Item 1 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.
13661831
          PMID: 11297592
            treatment
                        with
                               corticosteroids
                                                and
                                                      moclobemide favors
normalization
              of
                    hypothalamo-pituitary-adrenal axis dysregulation in
relapsing-remitting multiple sclerosis : a randomized, double
blind trial.
  Then Bergh F; Kumpfel T; Grasser A; Rupprecht R; Holsboer F; Trenkwalder
 Department of Neurology, Max Planck Institute of Psychiatry, 80804
Munich, Germany. thenberf@ninds.nih.gov
 Journal of clinical endocrinology and metabolism (United States)
2001, 86 (4) p1610-5, ISSN 0021-972X
                                          Journal Code: 0375362
 Publishing Model Print
 Document type: Clinical Trial; Journal Article; Randomized Controlled
Trial
 Languages: ENGLISH
 Main Citation Owner: NLM
 Record type: MEDLINE; Completed
 Hyperresponsiveness of the hypothalamo-pituitary-adrenal (HPA) axis in
multiple sclerosis (MS), an autoimmune inflammatory disease of
the central nervous system, is presumably due to diminished corticosteroid
receptor function. It probably influences the immune response, but its
clinical significance is not clear. Similar HPA dysregulation occurs in
depression and is reversible with successful antidepressant treatment. We
           a double blind, placebo-controlled trial to evaluate the
```

neuroendocrine effect of cotreatment with the antidepressant moclobemide as

an adjunct to oral corticosteroids in MS. Twenty-one patients with definite relapsing-remitting MS (11 females, aged 33.9 +/- 2.0 yr; Expanded Disability Status Scale score of neurological impairment, 2.0--6.5) in acute relapse were treated with placebo (n = 13) or 300 mg moclobemide (reversible monoamine oxidase A inhibitor; n = 8) for 75 days. All received oral fluocortolone from day 7 on, and the dose was tapered until day 29. Effects were evaluated using the combined dexamethasone-CRH test and clinically on days 1, 30, and 75. At baseline, the HPA axis was mildly activated, comparably for treatment groups [area under the curve for cortisol (AUC-Cort), 213.8 +/- 76.8 arbitrary units in the moclobemide group vs. 225.8 +/- 65.1 in the steroid alone group; mean +/- SEM]. In a group of healthy controls with comparable demographic characteristics, the 107.4 +/- 14.1. Moclobemide cotreatment resulted in AUC-Cort was axis response, whereas the HPA system normalization of the HPA hyperresponse was maintained with steroids alone (AUC-Cort on day 30, 85.9 +/- 22.8 vs.177.1 +/- 68.5; on day 75, 111.0 +/- 46.0 vs. 199.2 +/- 64.6). The change in Expanded Disability Status Scale was comparable for both groups. Although corticosteroids alone had no effect on the HPA response using the dexamethasone-CRH test, treatment with moclobemide combined with corticosteroids favors normalization of the HPA relapsing-remitting MS.

5/AB/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

13379426 PMID: 10334000

Moclobemide treatment in multiple sclerosis patients with comorbid depression: an open-label safety trial.

Barak Y; Ur E; Achiron A

Multiple Sclerosis Center, Sheba Medical Center, Tel-Hashomer, Israel. Journal of neuropsychiatry and clinical neurosciences (UNITED STATES) Spring 1999, 11 (2) p271-3, ISSN 0895-0172 Journal Code: 8911344 Publishing Model Print

Document type: Clinical Trial; Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Depression is common in multiple sclerosis (MS) patients, but tricyclic compounds are not well tolerated and newer antidepressants have not been studied. Effects of 150-400 mg/day of moclobemide, a reversible monoamine oxidase A inhibitor, were studied in a 3-month open design in 10 MS patient with DSM-IV-diagnosed depression. Nine patients reached complete remission. No adverse effects were noted. Four patients reported side effects including nausea and insomnia. The authors conclude that moclobemide is a well tolerated and efficient treatment for depression comorbid with MS.

5/AB/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

10795288 PMID: 7527888

Selective MAO -A and B inhibitors, radical scavengers and nitric oxide synthase inhibitors in Parkinson's disease.

Youdim M B; Lavie L

Department of Pharmacology, Bruce Rappaport Faculty of Medicine, Technion, Haifa, Israel.

Life sciences (ENGLAND) 1994, 55 (25-26) p2077-82, ISSN 0024-3205

Journal Code: 0375521
Publishing Model Print

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

In the absence of identification of either an endogenously or an exogenously derived dopaminergic neurotoxin, the most valid hypothesis currently envisaged for etiopathology of Parkinson's disease (PD) is selective oxidative stress (OS) in substantia nigra (SN). Although OS is not proven, a significant body of evidence from studies on animal and Parkinsonian brain neurochemistry supports it. This hypothesis is based on excessive formation of reactive oxygen species (O2 and OH.) and demise of systems involved with scavenging or preventing the formation of such radicals from H2O2, generated as a consequence of dopamine oxidation (autoxidation and deamination). Since MAO (monoamine

oxidase A and B are the major H2O2 generating enzymes in the SN much attention has been paid to their selective inhibitors as symptomatic and neuroprotective agents in PD. Attention should also be given to radical scavengers (e.g. iron chelators, lipid peroxidative inhibitors and Vitamin E derivatives) as therapeutic neuroprotective agents in PD. This is considered valid since a significant elevation of iron is known to occur selectively in SN zone compacta and within the remaining melanized dopamine neurons of Parkinsonian brains. Although all the mechanism of iron induced oxygen free radical formation is not fully known there is no doubt that it participates with H2O2 (Fenton chemistry) to generate cytotoxic hydroxyl radical (OH.) and induce tissue os and neurodegeneration 6-hydroxydopamine model of PD. The dramatic proliferation of reactive amoeboid macrophages and microglia seen in SN of PD brains together with OS is highly compatible with an inflammatory process, similar to what has been observed in Alzheimer's disease and multiple sclerosis brains.

This has led us to examine the ability of reactive macrophages to produce oxygen free radicals in response to nitric oxide (NO) production. The latter radical has been implicated in the excitotoxicity of glutaminergic neurons innervating the striatum and SN. Indeed we have now observed that in reactive macrophages NO acts as a signal transducer of O2 production which can synergize with dopamine oxidation.

5/AB/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

09684740 PMID: 1792858

Platelet monoamine oxidase and plasma dopamine-beta-hydroxylase activities in patients with multiple sclerosis.

Markianos M; Sfagos C; Bistolaki E

Athens University Medical School, Psychiatric Clinic, Greece.

Acta neurologica Scandinavica (DENMARK) Dec 1991, 84 (6) p531-3,

ISSN 0001-6314 Journal Code: 0370336

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Platelet monoamine oxidase (MAO) and plasma

dopamine-beta-hydroxylase (DBH) activities were determined in a large group of multiple sclerose patients in relapse (49 patients) and in remission (28

Pryor 09 887832 - - DIALOG

patients), and compared with an age- and sex-matched control group (52 normal subjects). The activities of both enzymes did not differ from normal in both patient groups. Women had higher MAO activities both in normal and in patient groups. Multiple linear regression analysis revealed an association of low platelet MAO to the score in the mental subscale in the Kurtzke Disability Status Scale. Both male and female patients with mental symptomatology had significantly (p = 0.02) lower platelet MAO activities compared to the patients without. The possibility of a relationship between MAO activity and psychiatric vulnerability in MS is considered.

5/AB/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

07610931 PMID: 3088916

The management of resistant depression.

Levine S

Acta psychiatrica Belgica (BELGIUM) Mar-Apr 1986, 86 (2) p141-51,

ISSN 0300-8967 Journal Code: 0247037

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Between 10 and 30% of depressed patients, mostly bipolar, develop a therapy-resistant illness. The known causes of such chronic evolutions are discussed: misdiagnosis (underlying schizophrenia, personality disorder or drug-induced depression (neuroleptics), systemic disease (hypothyroidism, multiple sclerosis cardiovascular or or lack of efficacy (drug compliance, disease etc.), neoplastic Remedies are suggested: adequate dosage, drug insufficient dosage). combination (Newcastle cocktail. tricyclic antidepressant + MAOI, imipramine + T3), carbamazepine in lithium-resistant cases, alprazolam, reduction in vanadium intake, sleep deprivation, psychosurgery.

5/AB/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

06161672 PMID: 6270514

A biochemical basis for the actions of lithium on behaviour and on immunity: relapsing and remitting disorders of inflammation and immunity such as **multiple sclerosis** or recurrent herpes as manic-depression of the immune system.

Horrobin D F; Lieb J

Medical hypotheses (ENGLAND) Jul 1981, 7 (7) p891-905, ISSN 0306-9877 Journal Code: 7505668

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/AB/7 (Item 7 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

Pryor 09_887832 - - DIALOG

PMID: 4360370 04185790 [Disorders neurotransmitter in the system in multiple sclerosis?] Storungen im Neurotransmitter-System bei multipler Sklerose. Harrer G Deutsche medizinische Wochenschrift (GERMANY, WEST) Oct 19 1973, 98 (42) p1988-9, ISSN 0012-0472 Journal Code: 0006723 Publishing Model Print Document type: Journal Article Languages: GERMAN Main Citation Owner: NLM Record type: MEDLINE; Completed 5/AB/8 (Item 8 from file: 155) DIALOG(R) File 155:MEDLINE(R) (c) format only 2006 Dialog. All rts. reserv. 02710506 PMID: 5243906 The side effects of carbamazepine therapy. Redpath T H; Gayford J J Oral surgery, oral medicine, and oral pathology (UNITED STATES) Sep 1968, 26 (3) p299-303, ISSN 0030-4220 Journal Code: 0376406 Publishing Model Print Document type: Journal Article Languages: ENGLISH Main Citation Owner: NLM Record type: MEDLINE; Completed 5/AB/9 (Item 1 from file: 5) DIALOG(R) File 5:Biosis Previews(R) (c) 2006 BIOSIS. All rts. reserv. 0013068462 BIOSIS NO.: 200100240301 Combined treatment with corticosteroids and moclobemide favors normalization of hypothalamo-pituitary-adrenal axis dysregulation in relapsing-remitting multiple sclerosis: A randomized, double blind trial AUTHOR: Bergh Florian Then (Reprint); Kuempfel Tania; Grasser Annette; Rupprecht Rainer; Holsboer Florian; Trenkwalder Claudia AUTHOR ADDRESS: Laboratory of Molecular Biology, National Institute of Neurological Diseases and Stroke, National Institutes of Health, 36 Convent Drive, Room 3C11, Bethesda, MD, 20892-4092, USA**USA JOURNAL: Journal of Clinical Endocrinology and Metabolism 86 (4): p 1610-1615 April, 2001 2001 MEDIUM: print ISSN: 0021-972X DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English ABSTRACT: Hyperresponsiveness of the hypothalamo-pituitary-adrenal (HPA) axis in multiple sclerosis (MS), an autoimmune inflammatory disease of the central nervous system, is presumably due to diminished corticosteroid receptor function. It probably influences the immune response, but its clinical significance is not clear. Similar HPA dysregulation occurs in depression and is reversible with successful antidepressant treatment. We conducted a double blind, placebo-controlled

trial to evaluate the neuroendocrine effect of cotreatment with the antidepressant moclobemide as an adjunct to oral corticosteroids in MS. Twenty-one patients with definite relapsing-remitting MS (11 females, aged 33.9 +- 2.0 yr; Expanded Disability Status Scale score of neurological impairment, 2.0-6.5) in acute relapse were treated with placebo (n = 13) or 300 mg moclobemide (reversible monoamine oxidase A inhibitor; n = 8) for 75 days. All received oral fluocortolone from day 7 on, and the dose was tapered until day 29. Effects were evaluated using the combined dexamethasone-CRH test and clinically on days 1, 30, and 75. At baseline, the HPA axis was mildly activated, comparably for treatment groups (area under the curve for cortisol (AUC-Cort), 213.8 +- 76.8 arbitrary units in the moclobemide group vs. 225.8 +- 65.1 in the steroid alone group; mean +- SEM). In a group of healthy controls with comparable demographic characteristics, the AUC-Cort was 107.4 +- 14.1. Moclobemide cotreatment resulted in normalization of the HPA axis response, whereas the HPA system hyperresponse was maintained with steroids alone (AUC-Cort on day 30, 85.9 +- 22.8 vs. 177.1 +- 68.5; on day 75, 111.0 +- 46.0 vs. 199.2 +-64.6). The change in Expanded Disability Status Scale was comparable for both groups. Although corticosteroids alone had no effect on the HPA response using the dexamethasone-CRH test, treatment with moclobemide combined with corticosteroids favors normalization of the HPA response in relapsing-remitting MS.

5/AB/10 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2006 BIOSIS. All rts. reserv.

0013022169 BIOSIS NO.: 200100194008

Treatment of multiple sclerosis (MS) and other demyelinating conditions using lofepramine in combination with L-phenylalanine, tyrosine or tryptophan and possibly a vitamin B12 compound AUTHOR: Loder Cari (Reprint)

AUTHOR ADDRESS: 127 Russell Court, Woburn Place, London WC1H 0LP, UK**UK JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1237 (1): Aug. 1, 2000 2000

MEDIUM: e-file

PATENT NUMBER: US 6096737 PATENT DATE GRANTED: August 01, 2000 20000801 PATENT CLASSIFICATION: 514-217 PATENT COUNTRY: USA

ISSN: 0098-1133

DOCUMENT TYPE: Patent RECORD TYPE: Abstract LANGUAGE: English

ABSTRACT: The use of a combination of a tricyclic or tetracyclic antidepressant, a serotonin reuptake inhibitor, or a monoamine oxidase inhibitor with a neurotransmitter-inducing or precursor compound is proposed in the preparation of medication for the treatment or prevention of multiple sclerosis or other demyelinating conditions. For use in treatment to ameliorate the effects of a demyelinating condition, a daily regime is proposed of from 10 to 220 mg lofepramine and from 100 mg to 5 g of L-phenylalanine, optionally supplemented with injections of vitamin B12.

5/AB/11 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 Inst for Sci Info. All rts. reserv.

Number of References: 28

Genuine Article#: ZK332

06682927

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Title: Single-blind, placebo phase-in trial of two escalating doses of
    selegiline in the chronic fatigue syndrome (ABSTRACT AVAILABLE)
Author(s): Natelson BH (REPRINT) ; Cheu J; Hill N; Bergen M; Korn L; Denny
    T; Dahl K
Corporate Source: UNIV MED & DENT NEW JERSEY, NEW JERSEY MED SCH, DEPT
    NEUROSCI, 88 ROSS ST/E ORANGE//NJ/07018 (REPRINT); UNIV MED & DENT NEW
    JERSEY, NEW JERSEY MED SCH, DEPT PEDIAT/E ORANGE//NJ/07018; UNIV MED &
    DENT NEW JERSEY, NEW JERSEY MED SCH, CFS CTR/E ORANGE//NJ/07018
Journal: NEUROPSYCHOBIOLOGY, 1998, V37, N3, P150-154
ISSN: 0302-282X
                 Publication date: 19980000
Publisher: KARGER, ALLSCHWILERSTRASSE 10, CH-4009 BASEL, SWITZERLAND
Language: English
                   Document Type: ARTICLE
Abstract: Aim: To perform a clinical trial of selegiline in 25 patients
    with chronic fatigue syndrome (CFS) where patients were told they would
    receive placebo or active agent at different times during the 6-week
    trial. We chose selegiline, a specific monoamine oxidase (
    MAO) B receptor inhibitor, because a prior trial of low-dose
    phenelzine, a nonspecific MAO inhibitor, showed a small but
    significant therapeutic effect. Methods: Questionnaires comprised of 19
    tests of mood, fatigue, functional status and symptom severity were
    collected at the start and end of the trial as well as 2 weeks after
    its start. The trial was done in three 2-week blocks: in the first, 2
    placebo pills were given per day; in the next, one 5-mg tablet of agent
    and one placebo were given per day, and in the last, a 5-mg tablet of
    agent was given twice a day. The plan was to compare the changes in the
    19 tests during the placebo phase to those found in the active
    treatment phase in 19 patients completing the trial. Findings:
    Significant improvement in 3 variables - tension/anxiety, vigor and
    sexual relations - was found. A significant pattern of improvement
    compared to worsening was found for the 19 self-report vehicles during
    active treatment as compared with placebo treatment. Evidence for an
    antidepressant effect of the drug was not found. Conclusions:
    Selegiline has a small but significant therapeutic effect in CFS which
    appears independent of an antidepressant effect.
             (Item 2 from file: 34)
 5/AB/12
DIALOG(R) File 34:SciSearch(R) Cited Ref Sci
(c) 2006 Inst for Sci Info. All rts. reserv.
          Genuine Article#: ZE895 Number of References: 40
06613972
Title: Selegiline as immunostimulant - a novel mechanism of action? (
    ABSTRACT AVAILABLE)
Author(s): Muller T (REPRINT) ; Kuhn W; Kruger R; Przuntek H
Corporate Source: RUHR UNIV BOCHUM, ST JOSEF HOSP, DEPT NEUROL, GUDRUNSTR
    56/D-44791 BOCHUM//GERMANY/ (REPRINT)
Journal: JOURNAL OF NEURAL TRANSMISSION-SUPPLEMENT, 1998, N52, P321-328
ISSN: 0303-6995
                Publication date: 19980000
Publisher: SPRINGER VERLAG, 175 FIFTH AVE, NEW YORK, NY 10010
Language: English
                   Document Type: ARTICLE
Abstract: In clinical studies the MAO-B inhibitor selegiline appears
    to slow the progression of neurological deficits in Parkinson's disease
    (PD) and the cognitive decline in Alzheimer's disease (AD). The
    mechanisms of action remain unclear. Several lines of evidence indicate
    an immune-mediated pathophysiology of PD and AD. According to animal
    trials, selegiline increases the survival rate of immune suppressed
    mice. Stimulation of the immune response to bacterial or viral
    infection or in chronic inflammatory processes is managed by an
    increased synthesis of the cytokines interleukin-1 beta (IL-1 beta) and
```

subsequent interleukin-6 (IL-6). Outcome of viral or bacterial infections in the brain highly correlates with levels of the cytotoxic cytokine tumor-necrosis-factor-alpha (TNF). The aim of our study was to characterize the influence of selegiline on the biosynthesis of IL-1 beta, IL-6 and TNF in human peripheral blood mononuculear cells (PBMC) fi-om healthy blood donors. After isolation and washing PBMC were cultured without and with selegiline in three different concentrations (0.01 mu mol/l, 0.001 mu mol/l, 0.0001 mu mol/l) in a humidified atmosphere (7% CO2). Then cultures were centrifuged and supernatants were collected for IL-1 beta, IL-6 and TNF ELISA-assays. Treatment of cultured PBMC with various concentrations induced an increased synthesis of IL-1 beta (ANOVA F = 9.703, p = 0.0007), IL-6 (ANOVA F = 9.703) 20.648. p = 0.0001) and a reduced production of TNF (ANOVA F = 3.770, p= 0.040). These results indicate, that the influence of selegiline on the cytokine biosynthesis may also contribute to its putative neuroprotective properties.

5/AB/13 (Item 3 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 Inst for Sci Info. All rts. reserv.

06327691 Genuine Article#: YH602 Number of References: 55 Title: Co-culture blood-brain barrier models and their use for pharmatoxicological screening (ABSTRACT AVAILABLE)

Author(s): Reinhardt CA (REPRINT); Gloor SM

Corporate Source: SWISS ALTERNAT ANIM TESTING,/CH-8614 BERTSCHIKON ZURIC//SWITZERLAND/ (REPRINT); ETH ZENTRUM,INST BIOCHEM/CH-8092 ZURICH//SWITZERLAND/

Journal: TOXICOLOGY IN VITRO, 1997, V11, N5 (OCT), P513-518

ISSN: 0887-2333 Publication date: 19971000

Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD, ENGLAND OX5 1GB

Language: English Document Type: ARTICLE

Abstract: The availability of an in vitro blood-brain barrier model would represent a powerful alternative to experimental animals in pharmacological and toxicological research. This overview collects the various current approaches to build an in vitro model of the blood-brain barrier for these purposes. Purified bovine, porcine and human brain microcapillary endothelial cells as well as several immortalized cell lines have been used to model the blood-brain barrier in vitro, partly in co-culture with astrocytes of various species, or various cell lines such as C6 glioma or N2a neuroblastoma cells. The collected data indicate that functional parameters often can be induced by soluble and membrane-bound factors in such cell systems. Relevant barrier-specific parameters are reviewed: electrical resistance, and structure and function of the multidrug resistance P-glycoprotein and the gamma-glutamyl transpeptidase. Both P-glycoprotein and gamma-glutamyl transpeptidase have great influence on the pharmacodynamics, toxicology and metabolic capacity of the blood-brain barrier (drug efflux, oxidative damage, detoxification of endotoxins, etc.). Several available in vitro models appear to be suited for pharmacotoxicological screening, if the functional parameters gamma-glutamyl transpeptidase, P-glycoprotein as well as transendothelial resistance are monitored. (C) 1997 Published by Elsevier Science Ltd.

5/AB/14 (Item 4 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2006 Inst for Sci Info. All rts. reserv.

Genuine Article#: VQ435 Number of References: 102 05325790 Title: SUICIDAL-BEHAVIOR IS ATTENUATED IN PATIENTS WITH MULTIPLE-SCLEROSIS BY TREATMENT WITH ELECTROMAGNETIC-FIELDS (Abstract Available)

Author(s): SANDYK R

Corporate Source: POB 453/ROSLYN HTS//NY/11577; NEUROCOMMUN RES LABS INC/DANBURY//CT/06811; TOURO COLL, INST BIOMED ENGN & REHABIL SERV, DEPTNEUROSCI/DIX HILLS//NY/11746

Journal: INTERNATIONAL JOURNAL OF NEUROSCIENCE, 1996, V87, N1-2, P5-15 ISSN: 0020-7454

Document Type: REVIEW Language: ENGLISH

Abstract: A marked decrease in the levels of serotonin (5-HT) and its metabolite (5-HIAA) has been demonstrated in postmortem studies of suicide victims with various psychiatric disorders. Depression is the most common mental manifestation of multiple sclerosis (MS) which accounts for the high incidence of suicide in this disease. CSF 5-HIAA concentrations are reduced in MS patients and nocturnal plasma melatonin levels were found to be lower in suicidal than in nonsuicidal patients. These findings suggest that the increased risk of suicide in MS patients may be related to decreased 5-HT functions and blunted circadian melatonin secretion. Previous studies have demonstrated that extracerebral applications of pulsed electromagnetic fields (EMFs) in the picotesla range rapidly improved motor, sensory, affective and cognitive deficits in MS. Augmentation of cerebral 5-HT synthesis and resynchronization of circadian melatonin secretion has been suggested as a key mechanism by which these EMFs improved symptoms of the disease. Therefore, the prediction was made that this treatment modality would result in attenuation of suicidal behavior in MS patients. The present report concerns three women with remitting-progressive MS who exhibited suicidal behavior during the course of their illness. All patients had frequent suicidal thoughts over several years and experienced resolution of suicidal behavior within several weeks after introduction of EMFs treatment with no recurrence of symptoms during a follow-up of months to 3.5 years. These findings demonstrate that in MS pulsed applications of picotesla level EMFs improve mental depression and may reduce the risk of suicide by a mechanism involving the augmentation of 5-HT neurotransmission and resynchronization of circadian melatonin secretion.

5/AB/15 (Item 5 from file: 34) DIALOG(R) File 34:SciSearch(R) Cited Ref Sci (c) 2006 Inst for Sci Info. All rts. reserv.

Genuine Article#: TJ327 Number of References: 39 Title: RISK OF HUMAN-IMMUNODEFICIENCY-VIRUS TYPE 1-RELATED NEUROLOGIC DISEASE IN A COHORT OF INTRAVENOUS-DRUG-USERS (Abstract Available) Author(s): MARDER K; LIU XH; STERN Y; MALOUF R; DOONEIEF G; BELL K; TODAK G ; JOSEPH M; SORRELL S; SADR WE; WILLIAMS JBW; EHRHARDT A; STEIN Z; GORMAN J

Corporate Source: COLUMBIA UNIV, COLL PHYS & SURG, GERTRUDE H SERGIEVSKY CTR, DEPT NEUROL, 630 W 168TH ST, BOX 16/NEW YORK//NY/10032; COLUMBIA UNIV, COLL PHYS & SURG, GERTRUDE H SERGIEVSKY CTR, DEPT PSYCHIAT/NEW YORK//NY/10032; COLUMBIA UNIV, COLL PHYS & SURG, HIV CTR CLIN & BEHAV STUDIES/NEW YORK//NY/10032; COLUMBIA UNIV, SCH PUBL HLTH, DIV EPIDEMIOL/NEW YORK//NY/10032; ST LUKES ROOSEVELT HOSP/NEW YORK//NY/00000; HARLEM HOSP MED CTR/NEW YORK//NY/00000

Journal: ARCHIVES OF NEUROLOGY, 1995, V52, N12 (DEC), P1174-1182

ISSN: 0003-9942

Language: ENGLISH Document Type: ARTICLE

Abstract: Background: Although the proportion of cases of acquired immunodeficiency syndrome related to intravenous drug use has increased dramatically over the past decade, there has been no longitudinal examination of primary neurologic disease in this group.

Objective: To study the development of neurologic disease in human immunodeficiency virus (HIV)-negative and HIV-positive men and women who were intravenous drug users over a 3.5-year period.

Design: Prospective observational cohort study.

Setting: Subjects were recruited from an infectious disease clinic at a New York City Hospital or from a methadone maintenance program.

Participants: Ninety-nine HIV-negative (62 men and 37 women) and 1.24 HIV-positive (85 men and 39 women) intravenous drug users volunteered.

Main Outcome Measure: The development of clinically significant manifestations in six neurologic domains.

Results: With multivariate adjustment for current and past substance abuse, age, education, and head injury, we examined the odds of developing HIV-related neurologic disease. Extrapyramidal signs and reduced motor ability became increasingly apparent over time in HIV-infected men as their CD4 cell count declined and as the subjects developed the acquired immunodeficiency syndrome. Fewer neurologic signs were seen in the women.

Conclusions: The impact of HIV infection among intravenous drug users parallels that in homosexual men and is independent of alcohol and other drug use.

5/AB/16 (Item 6 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 Inst for Sci Info. All rts. reserv.

04381469 Genuine Article#: RZ513 Number of References: 18
Title: NUCLEAR MICROSCOPY IN PARKINSONS-DISEASE (Abstract Available)
Author(s): WATT F; LEE T; THONG PSP; TANG SM

Corporate Source: NATL UNIV SINGAPORE, DEPT PHYS, NUCL MICROSCOPY LAB, KENT RIDGE/SINGAPORE 0511//SINGAPORE/; NATL UNIV SINGAPORE HOSP, DEPT SURG/SINGAPORE 0511//SINGAPORE/

Journal: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 1995, V104, N1-4 (SEP), P361-364 ISSN: 0168-583X

Language: ENGLISH Document Type: ARTICLE

Abstract: Rats have been subjected to unilateral lesioning with the selective neurotoxin 6-OHDA in order to induce Parkinsonism. Analysis using the NUS Nuclear Microscope facility have shown that iron levels are raised by an average of 26% in the lesioned substantia nigra region of the brain compared with the non-lesioned side. In addition the background tissue level of iron is also elevated by 31% in the lesioned side, indicating that there is a general increase in iron levels as a result of the lesioning. This result is consistent with the other observations that other diseases of the brain are frequently associated with altered iron levels (eg. progressive nuclear palsy, multiple system atrophy, Alzheimers disease, multiple sclerosis).

5/AB/17 (Item 7 from file: 34) DIALOG(R) File 34: SciSearch(R) Cited Ref Sci (c) 2006 Inst for Sci Info. All rts. reserv. Number of References: 88 04234417 Genuine Article#: RQ231 Title: PSYCHOSES IN MULTIPLE-SCLEROSIS - A REASSESSMENT (Abstract Available) Author(s): SCHIFFERDECKER M; KRAHL A; KREKEL NO Corporate Source: UNIV COLOGNE, NEUROL & PSYCHIAT KLIN & POLIKLIN, JOSEPH STELZMANN STR 9/D-50924 COLOGNE//GERMANY/ Journal: FORTSCHRITTE DER NEUROLOGIE PSYCHIATRIE, 1995, V63, N8 (AUG), P 310-319 ISSN: 0720-4299 Document Type: ARTICLE Language: GERMAN Abstract: With the aim of reaching a new classification of psychoses with multiple sclerosis we reviewed the twentieth century literatur for observations with regard to the subject, as well as 688 medical records of our patients, looking for the occurrence of paranoid and hallucinatory psychoses in the course of multiple sclerosis. Special attention was paid to the occurrence of cycloid psychoses.

With multiple sclerosis, psychoses on the whole - but cycloid psychoses in particular - occur more frequently than in the general population. Women are affected just as frequently as men. Cycloid psychoses occur earlier in the course of the multiple sclerosis than the other psychoses; here, hallucinations occur with a higher frequency.

Similar as in the case of HIV-infection, multiple sclerosis can act as a trigger of a cycloid psychosis. The results of our study indicate that men and women experience this disease as similarly threatening. A shortcoming of critical faculties based on the organic disease is an additional factor that favours the outbreak of such a psychosis.

5/AB/18 (Item 8 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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04144629 Genuine Article#: RH641 Number of References: 79
Title: IRON IN CNS DISEASE
Author(s): GELMAN BB
Corporate Source: UNIV TEXAS, MED BRANCH, DEPT
 PATHOL, G-85/GALVESTON//TX/77550

Journal: JOURNAL OF NEUROPATHOLOGY AND EXPERIMENTAL NEUROLOGY, 1995, V54,
 N4 (JUL), P477-486

ISSN: 0022-3069
Language: ENGLISH Document Type: REVIEW

5/AB/19 (Item 9 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 Inst for Sci Info. All rts. reserv.

03952503 Genuine Article#: QV058 Number of References: 42 Title: LOCALIZED PROTON NMR-SPECTROSCOPY IN THE STRIATUM OF PATIENTS WITH

IDIOPATHIC PARKINSONS-DISEASE - A MULTICENTER PILOT-STUDY (Abstract Available)
Author(s): HOLSHOUSER BA; KOMU M; MOLLER HE; ZIJLMANS T; KOLEM H; HINSHAW DB; SONNINEN P; VERMATHEN P; HEERSCHAP A; MASUR H; RINNE UK; DEKOSTER A; TOSK JM

Corporate Source: JERRY L PETTIS MEM VET ADM MED CTR, PARKINSONS RES CTR, PSYCHIAT SERV 116A, 11202 BENTON ST/LOMA LINDA//CA/92357; JERRY L PETTIS MEM VET ADM MED CTR, PARKINSONS RES CTR, PSYCHIAT SERV 116A/LOMA LINDA//CA/92357; LOMA LINDA UNIV, SCH MED, DEPT RADIOL/LOMA LINDA//CA/00000; LOMA LINDA UNIV, SCH MED, DEPT PSYCHIAT/LOMA LINDA//CA/00000; LOMA LINDA UNIV, SCH MED, DEPT PSYCHIAT/LOMA LINDA//CA/00000; LOMA LINDA UNIV, SCH MED, DEPT PHYSIOL/LOMA LINDA//CA/00000; LOMA LINDA UNIV, SCH MED, DEPT PHYSIOL/LOMA

LINDA//CA/00000; LOMA LINDA UNIV, SCH MED, DEPT NEUROL/LOMA
LINDA//CA/00000; LOMA LINDA UNIV, SCH MED, DEPT PSYCHIAT/LOMA
LINDA//CA/00000; LOMA LINDA UNIV, SCH MED, DEPT PHYSIOL/LOMA
LINDA//CA/00000; LOMA LINDA UNIV, SCH MED, PARKINSONS RES
CTR/LOMALINDA//CA/00000; UNIV CENT HOSP, DEPT RADIOL/TURKU//FINLAND/;
UNIV CENT HOSP, NEUROL CLIN/TURKU//FINLAND/; UNIV MUNSTER, INST PHYS
CHEM/MUNSTER//GERMANY/; UNIV MUNSTER, NEUROL KLIN &
POLIKLIN/MUNSTER//GERMANY/; UNIV NIJMEGEN HOSP, DEPT
NEUROL/NIJMEGEN//NETHERLANDS/; SIEMENS AG, MED ENGN

Journal: MAGNETIC RESONANCE IN MEDICINE, 1995, V33, N5 (MAY), P589-594 ISSN: 0740-3194

Language: ENGLISH Document Type: ARTICLE

GRP/ERLANGEN//GERMANY/

Abstract: Single voxel proton MRS was used to study brain metabolism in the striatum of patients diagnosed with idiopathic Parkinson's disease (PD). Peak metabolite ratios in long echo time spectra were evaluated in 151 patient spectra and 97 age-matched control spectra collected at four participating institutions using identical hardware and clinical protocols. Combining data from all ages (27-83 years old) showed no significant difference between patient and control ratios. However, in an elderly subset of patients (51-70 years old), a significant decrease in striatal N-acetylaspartate (NAA)/choline (Cho) was observed. Also, a significant decrease in the mean NAA/Cho ratio was observed in patients versus controls for patients not being treated with Sinemet (Du Pont Pharm, Wilmington, DE) (hereafter referred to as levodopa/carbidopa). This result is consistent with the hypothesis that NAA may provide a reversible spectroscopic marker for neuronal dysfunction, although a prospective follow-up study will be needed to confirm this. Quantitation of MRS would be useful to exclude the possibility that a change in Cho levels affected the NAA/Cho ratios.

5/AB/20 (Item 10 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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03813936 Genuine Article#: QG820 Number of References: 52 Title: BRAIN REPAIR (Abstract Available)

Author(s): COMPSTON A

Corporate Source: UNIV CAMBRIDGE, ADDENBROOKES HOSP, NEUROBIOL UNIT, NEUROL UNIT, HILLS RD/CAMBRIDGE CB2 2QQ//ENGLAND/; MRC, CAMBRIDGE CTR BRAIN REPAIR/CAMBRIDGE//ENGLAND/

Journal: JOURNAL OF INTERNAL MEDICINE, 1995, V237, N2 (FEB), P127-134 ISSN: 0954-6820

Language: ENGLISH Document Type: REVIEW

Abstract: Significant improvements in the treatment of common neurological diseases can be expected over the next few years from the application of advances now occurring in the basic neuroscience. In many disorders of the central nervous system, disability accumulates as a result of the degenerative process and its failure to repair. In part, this is

because with differentiation, cells in the adult nervous system lose the ability to proliferate an migrate. A family of growth factors orchestrates proliferation, migration, differentiation and survival of neurones and glia; because certain of these growth factors also protect from injury cells which they support during development, there should soon be opportunities for limiting damage following a variety of insults and for rescuing degenerating neurones and glia. The discovery that axon regeneration is actively inhibited, perhaps in order to maintain stability in the complex systems and circuits that are established during development, suggests new strategies for enhancing axonal regeneration in spinal and head injury. Recruiting cells that are capable of restoring glial-neuronal interactions into areas of damage will be an important part of the brain repair strategy but it may prove possible to restore complex cellular arrangements through cell implantation only. Grafted neurones survive, produce appropriate neurotransmitters, form connections and restore some behaviours, but their relative inability to grow limits the degree of structural and functional repair that can be achieved; nevertheless, nerve cell implantation is now being used in the management of certain neurodegenerative diseases of the human central nervous system. There are also prospects for increasing the remyelination which occurs following acute inflammatory disease of the central nervous system, through the combination of immunological treatments that limit the disease process, growth factors that recruit oligodendrocytes and implantation of glial progenitors into demyelinated areas.

5/AB/21 (Item 11 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 Inst for Sci Info. All rts. reserv.

03644954 Genuine Article#: PU540 Number of References: 31
Title: SELECTIVE MAO-A AND MAO-B INHIBITORS, RADICAL SCAVENGERS
AND NITRIC-OXIDE SYNTHASE INHIBITORS IN PARKINSONS-DISEASE (Abstract Available)

Author(s): YOUDIM MBH; LAVIE L

Corporate Source: TECHNION ISRAEL INST TECHNOL, BRUCE RAPPAPORT FAC MED, DEPT PHARMACOL, POB 9649/IL-31096 HAIFA//ISRAEL/; TECHNION ISRAEL INST TECHNOL, BRUCE RAPPAPORT FAC MED, DEPT ANAT/IL-31096 HAIFA//ISRAEL/

Journal: LIFE SCIENCES, 1994, V55, N25-2, P2077-2082

ISSN: 0024-3205

Language: ENGLISH Document Type: ARTICLE

Abstract: In the absence of identification of either an endogenously or an exogenously derived dopaminergic neurotoxin, the most valid hypothesis currently envisaged for etiopathology of Parkinson's disease (PD) is selective oxidative stress (OS) in substantia nigra (SN). Although OS is not proven, a significant body of evidence from studies on animal and Parkinsonian brain neurochemistry supports it. This hypothesis is based on excessive formation of reactive oxygen species (0-2(.) and OH.) and demise of systems involved with scavenging or preventing the formation of such radicals from H2O2, generated as a consequence of dopamine oxidation (autoxidation and deamination). Since MAO (monoamine oxidase A and B are the major H2O2 generating enzymes in the SN) much attention has been paid to their selective inhibitors as symptomatic and neuroprotective agents in PD. Attention should also be given to radical scavengers (e.g. iron chelators, lipid peroxidative inhibitors and Vitamin E derivatives) as therapeutic neuroprotective agents in PD. This is considered valid since a significant elevation of iron is known to occur selectively in SN zone compacta and within the remaining melanized dopamine neurons of

Parkinsonian brains. Although all the mechanism of iron induced oxygen free radical formation is not fully known there is no doubt that it participates with H2O2 (Fenton chemistry) to generate cytotoxic hydroxyl radical (OH.) and induce tissue OS and neurodegeneration in 6-hydroxydopamine model of PD. The dramatic proliferation of reactive amoeboid macrophages and microglia seen in SN of PD brains together with OS is highly compatible with an inflammatory process, similar to what has been observed in Alzheimer's disease and multiple sclerosis brains. This has led us to examine the ability of reactive macrophages to produce oxygen free radicals in response to nitric oxide (NO) production. The latter radical has been implicated in the excitotoxicity of glutaminergic neurons innervating the striatum and SN. Indeed we have now observed that in reactive macrophages NO acts as a signal transducer of O-2(.) production which can synergize with dopamine oxidation.

DIALOG(R) File 73:EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv. 11194577 EMBASE No: 2001204102 Depression in patient with neurological disorders. Suggested schemes of DEPRESION EN PACIENTES CON PATOLOGIA NEUROLOGICA. PROPUESTA DE ESQUEMAS TERAPEUTICOS Abreu de la Torre C.; Suarez-Monteagudo C.; Araujo-Suarez F. Dr. C. Abreu de la Torre, Ave. 25, N. 15805 La Habana Cuba Revista de Neurologia (REV. NEUROL.) (Spain) 16 FEB 2001, 32/4 (393 - 395)CODEN: RVNRA ISSN: 0210-0010 DOCUMENT TYPE: Journal ; Article LANGUAGE: SPANISH NUMBER OF REFERENCES: 21 (Item 2 from file: 73) DIALOG(R) File 73:EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv. EMBASE No: 2000412173 Pharmacological frontiers in the treatment of AIDS dementia McGuire D.; Marder K. D. McGuire, 643 Bair Island Road Suite 210, Redwood City, CA United AUTHOR EMAIL: dmcquire@csfluids.com Journal of Psychopharmacology (J. PSYCHOPHARMACOL.) (United Kingdom) 2000, 14/3 (251-257) CODEN: JOPSE ISSN: 0269-8811 DOCUMENT TYPE: Journal; Article LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH NUMBER OF REFERENCES: 46

(Item 1 from file: 73)

5/AB/22

Even in the era of highly active antiretroviral therapy, AIDS dementia remains an important and devastating complication of human immunodeficiency virus (HIV-1) infection. Based on the 1997 AIDS case rate of 56 per 100 000 population in the USA, a reasonable estimated incidence of AIDS dementia is 3-8 per 100 000, similar to that of multiple sclerosis. The pharmacology of AIDS dementia has been dominated by antiretroviral therapies, the best studied of which is azidothymidine. New and specific

therapies are needed to treat and prevent brain injury in the setting of HIV infection. Rational therapy has been limited by the absence of large, adequate and well-controlled clinical trials using neuroprotective agents or those with disease-modifying potential, as well as by an incomplete understanding of the pathophysiology of AIDS dementia. In this review, a summary of evidence-based hypotheses of HIV-associated brain injury is followed by information on current nonantiretroviral therapeutic trials and their scientific rationale.

5/AB/24 (Item 3 from file: 73) DIALOG(R) File 73: EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv. 10903783 EMBASE No: 2000387376 Multiple sclerosis, disease modifying treatments and depression: A critical methodological review Feinstein A. A. Feinstein, Sunnybrook and Women's College, Health Science Centre, Department of Psychiatry, 2075 Bayview Avenue, Toronto, Ont. M4N 3M5 Multiple Sclerosis (MULT. SCLER.) (United Kingdom) 2000, 6/5 (343-348) CODEN: MUSCF ISSN: 1352-4585 DOCUMENT TYPE: Journal; Review SUMMARY LANGUAGE: ENGLISH LANGUAGE: ENGLISH NUMBER OF REFERENCES: 52

Background: Major depression affects one in two patients with multiple sclerosis (MS) during the course of their lifetime. This adds to the morbidity associated with the disorder and may contribute to an increased mortality rate because of suicide. Over the past few years, with the advent of disease modifying treatments for MS, a new concern with respect to mood has arisen, namely the possibility that some of these drugs may have depression as a clinically significant side effect. Objective: To ascertain whether disease modifying treatments in MS are associated with the development of depression or the worsening of a depressive illness. Methodology: A MEDLINE and PSYCHLIT search focusing on depression and disease modifying treatments going back to 1993 (the publication date of the results of the first randomised, placebo controlled trial). The methodology pertaining to the assessment of depression is critically reviewed. Furthermore, a critical summary is provided of treatment modalities for the depressed MS patient. Results: There are conflicting data that depression may occur with some disease modifying drugs, particularly interferon beta-1b. However, all studies reveal limitations with respect to the assessment of mood. Some reports, despite omitting details of how mentation was assessed, still comment on the presence or absence of depression. Others suffer from one or more of the following shortcomings: a failure to assess premorbid risk factors for mood disorder; a reliance on one question to assess depression; the utilisation of self report mood rating scales of questionable validity; neglecting to distinguish depression as a symptom from depression as a syndrome (i.e. major depression as defined by the DMS-IV). Conclusions: Given the many methodological pitfalls inherent in all studies to date, it is premature to conclude that disease modifying drugs are associated with depression. Evidence suggests that treatment of depression, irrespective of a putative association with a disease modifying agent, is frequently effective. This applies to pharmacotherapy or psychotherapy, although the former may be preferred should depression arise during a course of treatment with a disease modifying agent.

5/AB/25 (Item 4 from file: 73) DIALOG(R) File 73: EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv. 07892772 EMBASE No: 1999366486 Medical treatment of patients with chronic psychiatric and chronic neurologic diseases in Rhineland-Palatinate MEDIZINISCHE BEHANDLUNG FUR PATIENTEN MIT CHRONISCH PSYCHIATRISCHEN UND CHRONISCH NEUROLOGISCHEN ERKRANKUNGEN IN RHEINLAND-PFALZ Reuther P.; Smolenski C. Neurologie und Rehabilitation (NEUROL. REHABIL.) (Germany) 1999, 5/4 (229-232)CODEN: NEREF ISSN: 0947-2177 DOCUMENT TYPE: Journal; Note LANGUAGE: GERMAN 5/AB/26 (Item 5 from file: 73) DIALOG(R) File 73:EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv. 07667055 EMBASE No: 1999150723 Possible use of amantadine in depression Huber T.J.; Dietrich D.E.; Emrich H.M. Dr. T.J. Huber, Klinik fur Klinische Psychiatrie, Medizinische Hochschule Hannover, Carl-Neuberg-Strasse 1, D-30625 Hanover Germany Pharmacopsychiatry (PHARMACOPSYCHIATRY) (Germany) 1999, 32/2 (47-55) CODEN: PHRME ISSN: 0176-3679 DOCUMENT TYPE: Journal; Review LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH NUMBER OF REFERENCES: 102

Amantadine, originally used in the treatment and prophylaxis of influenza infection, has also proved beneficial in drug-induced Parkinsonism, Parkinson's disease, traumatic head injury, dementia, multiple sclerosis and cocaine withdrawal. Amantadine appears to act through several pharmacological mechanisms, none of which has been identified as the one chief mode of action. It is a dopaminergic, noradrenergic and serotonergic substance, blocks monoaminoxidase A and NMDA receptors, and seems to raise beta- endorphin/beta-lipotropin levels. However, it is still uncertain which of these actions are relevant in therapeutic doses. One new aspect is the antiviral effect of amantadine on Borna disease virus, which it is suspected may possibly play a role in affective disorders. All of these actions could constitute an antidepressant property, and it is suggested that amantadine might work as an antidepressant not through one, but through several mechanisms thought to be related to antidepressant activity. Effects of amantadine on symptoms of affective disorders have been demonstrated in several trials administering it for varying purposes. Additionally, animal studies as well as clinical trials in humans have hinted at an antidepressant activity of amantadine. We present here an overview of the current data. However, only a limited body of evidence is available, and further studies are needed to investigate the efficacy of amantadine as well as its modes of action in depression.

5/AB/27 (Item 6 from file: 73)
DIALOG(R)File 73:EMBASE
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07131460 EMBASE No: 1998019436

Obstetric issues in women with neurologic diseases

Norwitz E.R.; Repke J.T.

Dr. E.R. Norwitz, Department of Obstetrics/Gynecology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA United States Current Problems in Obstetrics, Gynecology and Fertility (CURR. PROBL.

OBSTET. GYNECOL. FERTIL.) (United States) 1997, 20/6 (190-230)

CODEN: CPOIE ISSN: 8756-0410 DOCUMENT TYPE: Journal; Review

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 279

During pregnancy, the investigation and management of neurologic conditions is complicated by concern about the safety of the fetus. This manuscript is designed as a clinical reference for the practicing obstetrician. It will focus on the management of late pregnancy, labor, and delivery in patients with specific neurologic ailments. A systematic, anatomic approach has been taken. The review starts with a discussion of neurologic diseases of the brain and works its way down the spinal cord and peripheral nerves, across the neuromuscular junctions to the muscles. Movement disorders are considered separately. The monograph concludes with discussions of neurologic emergencies during pregnancy, as well as other situations specific to obstetric practice (such as drugs and breast-feeding, genetic counseling, and antenatal diagnosis for inherited neurologic diseases.) Disorders of the Brain includes discussions about the incidence, differential diagnosis, and management of a number of clinical conditions that center on the brain. These include headache; seizure disorders (focusing on management issues during pregnancy and implications for the fetus and newborn); cerebrovascular disease (stroke, Sheehan's syndrome, hypertensive encephalopathy); and demyelinating and degenerating diseases (multiple sclerosis, Huntington's disease). Infections of the nervous system (syphilis, polio, tetanus, toxoplasmosis, Lyme disease, HIV) occur in pregnancy, as they do in the nonpregnant state, but diagnosis and management might be different. The effects of inflammatory conditions of the central nervous system and intracranial tumors on pregnancy are reviewed briefly. There is a separate discussion about radiation exposure and its effects on the developing fetus. This discussion concludes that, in general, the use of radiographic technology (either diagnostic or therapeutic), if indicated, should not be restricted because the patient is pregnant. Psychiatric disorders affecting pregnancy (those that precede pregnancy, as well as conditions that result from pregnancy-such as postpartum depression and psychosis) often are overlooked. The warning signs and treatment of such conditions are discussed in detail. Disorders of the Spinal Cord includes discussions about specific topics (such as pregnancy in women with spinal-cord injuries and the entity of autonomic dysreflexia), as well as some more general topics (such as backache in pregnancy). Disorders of Peripheral Nerves covers both mononeuropathies (carpal tunnel syndrome, Bell's palsy, meralgia paresthetica) and polyneuropathies (Guillain-Barre syndrome, porphyric neuropathy, and the hereditary polyneuropathies). The 'lithotomy' position derives its name from Greek 'lithos,' meaning stone, and 'otomy,' meaning to cut. It is so named because it was the position in which elderly men were placed for surgical removal of obstructing bladder stones. It is not a natural position for childbirth and might create nerve injury as the result of compression and/or stretching of a particular peripheral nerve of nerve plexus. Symptoms of such obstetric neuropathies are usually mild and unilateral, and complete recovery can be expected in the majority of cases. These are reviewed in greater detail. Disorders of the Neuromuscular Junction focuses on myasthenia gravis, its effect on pregnancy, implications for the fetus and newborn, and management during labor and

delivery. Disorders of Muscle includes brief discussions about muscle cramping and a number of specific muscular disorders, such as myotonic dystrophy, myotonia congenita, and polymyositis/dermatomyositis. Movement disorders are considered separately. These include a definition of some of the generalized involuntary movements, with specific reference to chorea gravidarum and Wilson's disease. Localized involuntary movements are discussed briefly, including the 'restless leg syndrome,' which is reputed to be the most common movement disorder in pregnancy. It usually occurs in the third trimester and has been reported in up to 11% to 12% of all pregnancies. Neurologic Emergencies During Pregnancy reviews the management of such conditions as status epilepticus and disorders of consciousness (coma) during pregnancy and delivery. Miscellaneous Neurologic Conditions Specific to Pregnancy includes such topics as neurologic birth injury (intracranial hemorrhage, brachial- plexus injury, fetal acidosis, cerebral palsy) and other congenital neurologic injuries (facial nerve paralysis, injuries to the neck and spine, multicystic encephalomalacia). Many factors might put a fetus at risk for a genetic disorder or neurologic birth defect. The section Neurologic Disorders in the Fetus explores the need for comprehensive genetic counseling both before and after conception. A number of preventative measures are outlined. They might ameliorate the risk of congenital neurologic anomaly, such as meticulous periconceptional glucose control in women with insulin-dependent diabetes, folic acid supplementation for women who have had a previous fetus with neural-tube defect, and parental karyotyping for couples at risk of having a fetus with one of the more common autosomal recessive disorders (Tay-Sachs disease, cystic fibrosis, sickle cell anemia). Recommendations for routine prenatal screening (including maternal serum alpha-fetoprotein, triple-panel serum screening, ultrasonography, and amniocentesis and other fetal genetic testing) are reviewed in detail. The section ends with a detailed discussion on drugs and breast-feeding. In general, most chronic neurologic disorders are compatible with normal pregnancy outcome. Diagnostic investigations (including imaging studies) and treatment protocols should be initiated, if indicated. The implications of such interventions for the developing fetus, however, should not be overlooked.

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5/AB/28 (Item 7 from file: 73)
DIALOG(R)File 73:EMBASE
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06130885 EMBASE No: 1995162262
Medical use of psychostimulants: An overview
Holmes V.F.
DUMC 3335, Durham, NC 27710 United States
International Journal of Psychiatry in Medicine (INT. J. PSYCHIATRY MED.) (United States) 1995, 25/1 (1-19)
CODEN: IJMED ISSN: 0091-2174
DOCUMENT TYPE: Journal; Review
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
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This overview addresses the basic chemistry, pharmacology, activity, medical uses, drug interactions and adverse side effects of the psychostimulants.

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05699453 EMBASE No: 1994104417

Pryor 09_887832 - - DIALOG Various forms of tremor: How to identify them and how to treat them? VERSCHIEDENE TREMORFORMEN. WIE ERKENNEN, WIE BEHANDELN? Aschoff J.C. Abteilung Neurologie, Universitat Ulm, Steinhovelstrasse 9,88075 Ulm Germany Therapiewoche (THERAPIEWOCHE) (Germany) 1994, 44/10 (586-591) CODEN: THEWA ISSN: 0040-5973 DOCUMENT TYPE: Journal; Review SUMMARY LANGUAGE: GERMAN; ENGLISH LANGUAGE: GERMAN Tremors are mainly differentiated into resting tremor and tremor of posture and action. All the subtypes including physiological, drug induced and psychogenic tremor are diagnosed by observation of the tremor habitat in its predominant occurrence. Betablockers dominate in the treatment of benign essential tremor (with its familial and senile varieties). The efficacy of anti-Parkinson drugs is yet unsatisfactory with respect to tremor reduction. Intention-tremor due to cerebellar lesions can be efficiently treated neither by drugs nor by neurosurgical procedures. (Item 9 from file: 73) DIALOG(R) File 73: EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv. EMBASE No: 1993298951 Neurodegenerative disorders: Patent activity between January and June 1993 Jaen J.C. Parke-Davis Pharmaceutical Res Div, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105 United States Current Opinion in Therapeutic Patents (CURR. OPIN. THER. PAT.) (United Kingdom) 1993, 3/9 (1335-1346) CODEN: COTPE ISSN: 0962-2594 DOCUMENT TYPE: Journal; Review LANGUAGE: ENGLISH 5/AB/31 (Item 10 from file: 73) DIALOG(R) File 73: EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv. EMBASE No: 1982217617 02052523 Drug treatment in multiple sclerosis Kelly R. Dept. Neurol., St Thomas' Hosp., London United Kingdom Physiotherapy (PHYSIOTHERAPY) (United Kingdom) 1982, 68/5 (146-148) CODEN: PHSIA DOCUMENT TYPE: Journal LANGUAGE: ENGLISH 5/AB/32 (Item 11 from file: 73) DIALOG(R) File 73: EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv. 01798334 EMBASE No: 1981233287

Adrenergic influences on spasticity. Studies on the influences of alphaand beta-adrenergic blockade on proprioceptive reflexparameters in spastic patients Mai J.

Denmark

Acta Neurologica Scandinavica (ACTA NEUROL. SCAND.) (Denmark) 1981, 63/Suppl. 85 (1-143)

CODEN: ANRSA

DOCUMENT TYPE: Journal

LANGUAGE: ENGLISH SUMMARY LANGUAGE: DANISH

The present study is a neurophysiological investigation into the mode of action of alpha- and beta-adrenergic blockade on proprioceptive reflex activity - and thus on spasticity. The study has been conducted exclusively on humans, mainly patients suffering from multiple sclerosis and spasticity.

5/AB/33 (Item 12 from file: 73)

DIALOG(R) File 73: EMBASE

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EMBASE No: 1979054523 01333864

Attacks of acute headache

LES EPISODES DE CEPHALEES AIGUES

Aimard G.; Trouillas P.

Hop. Neurol., 69394 Lyon Cedex 3 France

Semaine des Hopitaux (SEM. HOP.) (France) 1978, 54/33-36 (1059-1061)

CODEN: SHPAA

DOCUMENT TYPE: Journal

LANGUAGE: FRENCH SUMMARY LANGUAGE: ENGLISH

Acute headaches are in most cases significant symptoms or premonitory signs of a neurological condition. From a semiological point of view, they may be : (i) isolated, (ii) associated with neurological symptoms (ophthalmoplegia, hemiplegia, hemianesthesia). From an etiological point of view, the haemorrhagic conditions are predominant (30 %) : encephalic vascular malformation with or without subarachnoidal haemorrhagia (21 %), subarachnoidal haemorrhagia without malformation (6%) and subdural haematoma (3%). Two types of conditions are also frequently observed : ischemic attacks (22,3 %) and inflammatory meningeal syndromes (12 %). Rare cases with hypophyseal adenomas, ischemic attacks under oestro-progestative treatment, accidents of mono-amine-oxydase inhibitors and multiple sclerosis are observed. 23,8 % of the cases remained without any precise diagnosis. One of the interesting points in the acute headache issue is the possibility of discovering an encephalic vascular malformation without any important bleeding and, therefore, good conditions for surgery.

5/AB/34 (Item 13 from file: 73)

DIALOG(R) File 73:EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv.

01122751 EMBASE No: 1978252934

Clinical, biochemical, and physiological features distinguishing myoclonus responsive to 5 hydroxytryptophan, tryptophan with a monoamine oxidase inhibitor, and clonazepam

Chadwick D.; Hallett M.; Harris R.; et al.

University Dept. Neurol., Inst. Psychiat., London United Kingdom

Brain (BRAIN) (United Kingdom) 1977, 100/3 (455-487)

CODEN: BRAIA

DOCUMENT TYPE: Journal LANGUAGE: ENGLISH

Fifteen patients with a variety of myoclonic syndromes were studied clinically, pharmacologically, and physiologically. CSF tryptophan, 5HIAA, and HVA were also measured. Of these patients, 8 were improved to varying degrees by therapy with 5HTP, tryptophan in combination with MAOI (but not tryptophan alone), and clonazepam. This group included 6 cases of post-anoxic myoclonus, 1 case of post-traumatic myoclonus and 1 undiagnosed case of non-progressive focal myoclonus and epilepsy. In this group low levels of CSF 5HIAA were found compared to non-responsive cases and controls. Two cases of dyssynergia cerebellaris myoclonica, 2 cases of undiagnosed etiology, 2 cases of essential myoclonus, and 1 case of palatal myoclonus failed to respond to drug therapy. However, even amongst the responsive group the improvement varied. The most dramatic responses were seen in those patients in whom physiological study suggested that myoclonus was mediated by brain-stem structures. Less dramatic responses were seen in patients in whom the myoclonus appeared to originate from cortical structures. The neurochemical basis of myoclonus responding to 5HT precursors and clonazepam is discussed. It is suggested that such myoclonus arises from a relative hypoactivity of the 5HT neuronal system which results in a release of abnormal responses to sensory stimuli which characterize this type of myoclonus.

5/AB/35 (Item 14 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2006 Elsevier Science B.V. All rts. reserv.

00944552 EMBASE No: 1978072861
 Catecholamines in the central nervous system. Physiologic and pathologic survey
 LES CATECHOLAMINES DU SYSTEME NERVEUX CENTRAL. APERCU PHYSIOLOGIQUE ET PATHOLOGIQUE
 Rascol A.; Guiraud B.; David J.; Montastruc J.L.
 Serv. Neurol., CHU Purpan, Toulouse France
 Revue de Medecine de Toulouse (REV. MED. TOULOUSE) (France) 1977, 13/3 sup (231-240)

DOCUMENT TYPE: Journal LANGUAGE: FRENCH

CODEN: RMDTA

5/AB/36 (Item 1 from file: 144) DIALOG(R)File 144:Pascal (c) 2006 INIST/CNRS. All rts. reserv.

10022341 PASCAL Number: 92-0114754
Platelet monoamine oxidase and plasma

dopamine-beta-hydroxylase activities in patients with multiple slerosis
 MARKIANOS M; SFAGOS C; BISTOLAKI E

Athens university medical school, psychiatric clin., Athens, Greece Journal: Acta neurologica scandinavica, 1991, 84 (6) 531-533

Language: English Summary Language: English

Platelet monoamine oxidase (MAO) and plasma dopaminebeta -hydroxylase (DBH) activities were determined in a large group of multiple sclerose patients in relapse (49 patients) and in remission (28 patients), and compared with an age- and sex-matched control group (52 normal subjects). The activities of both enzymes did not differ from normal in both patient groups. Women had higher MAO activities both in normal and in patient groups. Multiple linear regression analysis revealed an association of low platelet MAO to the score in the mental subscale in the Kurtzke Disability Status Scale

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(Item 1 from file: 351)
DIALOG(R) File 351: Derwent WPI
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013157209
WPI Acc No: 2000-329082/200028
XRAM Acc No: C00-099736
  Treatment of neurodegeneration using compounds which inhibit p25
  accumulation, useful for treating e.g. Alzheimer's disease, Down's
  syndrome, Parkinson's disease, Huntington's disease, multiple
  sclerosis or dementia
Patent Assignee: HARVARD COLLEGE (HARD )
Inventor: LEE M S; PATRICK G N; TSAI L
Number of Countries: 020 Number of Patents: 001
Patent Family:
Patent No
             Kind
                     Date
                             Applicat No
                                            Kind
                                                   Date
                                                            Week
WO 200021550 A2 20000420 WO 99US24221
                                            Α
                                                 19991013 200028 B
Priority Applications (No Type Date): US 99136631 P 19990527; US 98103975 P
  19981013
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                     Filing Notes
WO 200021550 A2 E 53 A61K-038/00
   Designated States (National): CA JP
   Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
   MC NL PT SE
Abstract (Basic): WO 200021550 A2
Abstract (Basic):
        NOVELTY - New methods for treating or preventing neurodegenerative
    disease (ND) comprise administering compounds which inhibit
    accumulation of p25.
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DETAILED DESCRIPTION - A novel method of preventing or treating a ND in an individual comprises administering one or more compounds that reduce conversion of p35 to p25 in neurological tissue.

INDEPENDENT CLAIMS are also included for:

- (1) a method of preventing or treating a ND in an individual which is associated with neurofibrillatory tangles and accumulation of p25 in neurological tissue, comprising administering to the individual compounds that inhibit deregulation of a cdk5 kinase;
- (2) a method of preventing or treating a ND in an individual which is associated with neurofibrillatory tangles and accumulation of p25 in neurological tissue, comprising administering one or more compounds that reduce phosphorylation of tau by a p25/cdk5 kinase;
- (3) a method of treating a ND in an individual which is associated with neurofibrillatory tangles and accumulation of p25 in the brain, comprising administering to the individual one or more compounds that reduce accumulation of p25 in the brain;
- (4) a method of preventing or treating a ND in an individual comprising administering one or more calpain inhibitors or antagonists which reduce conversion of p35 to p25;
- (5) a method of preventing or treating a ND in an individual comprising administering one or more cation antagonists or inhibitors which reduce conversion of p35 to p25;
- (6) a method of inhibiting or reducing conversion of p35 to p25 in neuronal tissue comprising contacting one or more calpain inhibitors or antagonists, and/or one or more cation inhibitors or antagonists with the neuronal tissue;

- (7) a method of preventing or reducing neurofibrillatory tangles comprising contacting one or more calpain inhibitors or antagonists, and/or one or more cation inhibitors or antagonists with neuronal tissue, whereby conversion of p35 to p25 is reduced;
- (8) a method of preventing or treating an individual having a ND comprising administering one or more calpain inhibitors or antagonists and at least one other composition used for preventing or treating ND;
- (9) a method of determining the presence or absence of a ND in an individual, comprising determining the presence or absence of p25 in a sample obtained from the individual, where the presence of p25 in the sample as compared to a control indicates the presence of the ND, and the absence of p25 as compared to a control indicates the absence of a ND;
- (10) a method of determining the presence or absence of a ND in an individual comprisinga) obtaining a sample from an individual to be tested; (b) assessing the levels of p25 and p35 in the sample; and (c) comparing the levels assessed to a standard or control, where an increased level of p25 and a decreased level of p35 indicates relative to a standard indicates the presence of the ND, and a decreased level of p25 and an increased level of p35 indicates relative to a standard indicates the absence of the ND;
- (11) a method of diagnosing or aiding in the diagnosis of a ND in an individual comprising: (a) determining the presence, absence or level of p25 in a sample obtained from the individual; and (b) comparing the level of p25 determined with a control or standard, where a presence or increased level of p25 in the sample indicates the presence of the ND, and the absence or decreased level of p25 indicates the absence of a ND;
- (12) a method of determining the efficacy of treatment for an individual having a ND, comprising: (a) determining the level of p25 in a sample obtained from the individual; and (b) comparing the level of p25 determined with a control or standard where an increased level of p25 in the sample indicates ineffective treatment and a decreased level of p25 indicates effective treatment;
- (13) a method of reducing the extent to which a ND that is associated with neurofibrillatory tangles and accumulation of p25 in the brain occurs in an individual, comprising administering a compound that reduces conversion of p35 to p25 in the brain;
- (14) a compound for the prevention or treatment of a ND comprising a compound selected from:
 - (a) a compound that inhibits the association of p25 with cdk5;
 - (b) a compound that inhibits deregulation of cdk5 by p25;
 - (c) a compound that reduces the conversion of p35 to p25;
- (d) a compound that reduces the phosphorylation of tau by p25/cdk5 kinase;
 - (e) a compound that inhibits calpain;
 - (f) a compound that inhibits a cation; and
 - (g) a compound that is an agonist of p35;
 - (15) a nucleic acid construct encoding a compound as in (14).
 ACTIVITY Neuroprotective; Nootropic; Antiparkinsonian;

ACTIVITY - Neuroprotective; Nootropic; Antiparkinsonian; Anticonvulsant.

MECHANISM OF ACTION - p25 Accumulation inhibitors; calpain inhibitors; cation inhibitors; calcium or magnesium inhibitors; p35 agonists; p25-cdk5 association inhibitors; tau phosphorylation inhibitors.

Brain tissues of 8 Alzheimer's disease (AD) cases, 4 age-matched non-neurological cases, and one Huntington's disease case were used in a study. The expression profiles of p35 and cdk5 from human brain tissues were surveyed. While p35 levels remained relatively constant in all samples, a 25kD species, recognizable by anti-p35 antibodies, was

found to be accumulated 20-40-fold that of p35 in all but one AD sample. Cdk5 levels do not vary significantly between normal and AD samples. To verify the identity of the 25kD species, antibodies recognizing various regions of p35 were utilized. The accumulation of this 25kD species in AD samples corresponded to the elevated cdk5 kinase activity in the AD samples as indicated by the cdk5 associated histone H1 kinase activity. It was shown that conversion of p35 to p25 results in deregulation of the cdk5 kinase. The deregulated cdk5 kinase can cause irreversible damage to the cytoskeleton and neuronal death. Based on the accumulation of p25 in AD brains and the cytoskeletal disruption and apoptosis induced by the p25/cdk5 kinase in neurons, p25 production and accumulation in brain may contribute to the pathogenesis of AD. Further studies showed that the calcium dependent protease calpain is responsible for p35 cleavage. Inhibitors to calpain completely inhibit the appearance of p25.

USE - Used to treat or prevent e.g. dementias, NDs associated with stroke, myocardial infarction, ischemia or other oxidative stresses, Alzheimer's disease, Coricobasal degeneration, Dementia pugilistica, Down's syndrome, Frontotemporal dementias and Parkinsonism linked to chromosome 17, Myotonic dystrophy, Niemann-Pick disease, Parkinson-dementia complex of Guam, Pick's disease, postencephalic Parkinsonism, prion disease with tangles, progressive supraneuclar palsy, lower lateral sclerosis, Huntington's disease, subacute sclerosing panencephalistis or multiple sclerosis (claimed).

pp; 53 DwgNo 0/4

5/AB/38 (Item 2 from file: 351)
DIALOG(R)File 351:Derwent WPI
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008410735

WPI Acc No: 1990-297736/199039

Related WPI Acc No: 1989-270711; 1990-051539; 1993-368986

XRAM Acc No: C90-128636 XRPX Acc No: N90-228849

Testing mammals for susceptibility to inflammatory diseases - by admin. a hypothalamic-pituitary-adrenal axis stimulant and measuring hormone levels

Patent Assignee: US DEPT OF COMMERCE (USDC); NAT INST OF HEALTH (USSH); US SEC OF COMMERCE (USDC); US DEPT HEALTH & HUMAN SERVICE (USSH) Inventor: CHROUSOS G P; GOLD P W; STERNBERG E M; WILDER R L Number of Countries: 017 Number of Patents: 008

Patent Family:

raccine ramining	•						
Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 7422791	N	19900828	US 89422791	A	19891018	199039	В
WO 9104479	Α	19910404				199116	
AU 9065374	Α	19910418				199129	
EP 494256	A1	19920715	EP 90915568	Α	19900925	199229	
			WO 90US5457	Α	19900925		
JP 4504760 .	W	19920820	JP 90514350	A	19900925	199240	
			WO 90US5457	A	19900925		
US 5209920	Α	19930511	US 88277708	Α	19881130	199320	
			US 89365735	Α	19890614		
			US 89412294	Α	19890925		
AU 648274	В	19940421	AU 9065374	Α	19900925	199421	
EP 494256	A4	19920812	EP 90915568	Α		199523	

Priority Applications (No Type Date): US 89422791 A 19891018; US 88277708 A

19881130; US 89412294 A 19890925; US 89365735 A 19890614 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9104479 A

Designated States (National): AU CA JP

Designated States (Regional): AT BE CH DE DK ES FR GB IT LU NL SE

EP 494256 A1 E 63 G01N-001/00 Based on patent WO 9104479

Designated States (Regional): AT BE CH DE DK ES FR GB IT LI LU NL SE

JP 4504760 W 23 G01N-033/74 Based on patent WO 9104479

US 5209920 A 22 G01N-001/00 CIP of application US 88277708 CIP of application US 89365735

CIP of application us 8936

CIP of patent US 5006330 AU 648274 B A61K-037/02 Previous Publ. patent AU 9065374

Based on patent WO 9104479

Abstract (Basic): US 7422791 N

Method for testing mammals for susceptibility to inflammatory diseases comprises administering to a mammal a cpd. (I) which is effective in stimulating the hypothalamic-pituitary-adrenal (HPA) axis and measuring the level of hormones secreted by the pituitary and adrenal glands of the mammal.

More specifically, (I) may be cytokines, cell growth factors, neuroendocrine hormones such as corticotropin releasing hormone (CRH) or arginine vasopressin (AVP), biogenic amines, agonists of biogenic amines, antagonists of biogenic amines, monoamine oxidase inhibitors and biogenic amine uptake inhibitors or glucocorticoid receptor antagonists and the level of glucocorticoids or adrenocorticotropic hormone (ACTH) in the blood plasma of the mammal is measured.

USE - Useful as a model in the study of the mammalian autoimmune diseases; also for predicting intensity of response to stress and capacity to mount a sustained adaptive response to stress. Use of therapy through CRH activation during an injury or illness helps prevent the immune-inflammatory response from overshooting and restrains exploratory behaviour to diminish exposure to further danger. Used for testing for susceptibility to inflammatory diseases such as arthritis, uveoretinitis, pneumonitis, encephalomyelitis, myocarditis, thyroiditis, nephritis, multiple sclerosis and hepatic granulomatous diseases. The method can also be used as a guide for the treatment with agents that may bypass the HPA defect by stimulating the HPA axis centrally or at multiple levels.

US 7422791 A

Method for testing mammals for susceptibility to inflammatory diseases comprises administering to a mammal a cpd. (I) which is effective in stimulating the hypothalamic-pituitary-adrenal (HPA) axis and measuring the level of hormones secreted by the pituitary and adrenal glands of the mammal.

More specifically, (I) may be cytokines, cell growth factors, neuroendocrine hormones such as corticotropin releasing hormone (CRH) or arginine vasopressin (AVP), biogenic amines, agonists of biogenic amines, antagonists of biogenic amines, monoamine oxidase inhibitors and biogenic amine uptake inhibitors or glucocorticoid receptor antagonists and the level of glucocorticoids or adrenocorticotropic hormone (ACTH) in the blood plasma of the mammal is measured.

USE - Useful as a model in the study of the mammalian autoimmune diseases; also for predicting intensity of response to stress and capacity to mount a sustained adaptive response to stress. Use of therapy through CRH activation during an injury or illness helps prevent the immune-inflammatory response from overshooting and restrains exploratory behaviour to diminish exposure to further danger.

Used for testing for susceptibility to inflammatory diseases such as arthritis, uveoretinitis, pneumonitis, encephalomyelitis, myocarditis, thyroiditis, nephritis, multiple sclerosis and hepatic granulomatous diseases. The method can also be used as a guide for the treatment with agents that may bypass the HPA defect by stimulating the HPA axis centrally or at multiple levels.

Dwg.0/10

Abstract (Equivalent): US 5209920 A

Testing susceptibility of a mammal to inflammatory disease comprises admin. of a cpd. which stimulates hypothalamic-pituitory-adrenal (HPA) axis and measuring the level of at least one hormone secreted by the pituitary or adrenal glands.

Cpds. is e.g. a cytokine, growth hormone, neuroendocrine hormone, biogenic amine, monoamine oxidase inhibitor, etc. Also claimed is a method for treating inflammatory diseases by admin. of the cpd.

USE/ADVANTAGE - For testing susceptibility of mammals to inflammatory diseases, e.g. arthritis, uveoretimitis, pneumonitis, encephalomyelitis, multiple sclerosis or hepatic granulomatas.

Dwq.0/8

(Item 3 from file: 351) 5/AB/39 DIALOG(R) File 351: Derwent WPI (c) 2006 Thomson Derwent. All rts. reserv.

008164538

WPI Acc No: 1990-051539/199007

Related WPI Acc No: 1989-270711; 1990-297736; 1993-368986

XRAM Acc No: C90-022306 XRPX Acc No: N90-039601

Testing for susceptibility to inflammatory diseases - by administering cpd. which stimulates hypothalamic-pituitary-adrenal axis and measuring hormone levels

Patent Assignee: US DEPT HEALTH & HUMAN SERVICE (USSH) Inventor: CHROUSOS G P; GOLD P W; STERNBERG E M; WILDER R L Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week US 7365735 19891205 US 89365735 19890614 199007 B N Α

Priority Applications (No Type Date): US 89365735 A 19890614; US 88277708 A 19881130

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 7365735 N 59

Abstract (Basic): US 7365735 N

A method for testing mammals for susceptibility to inflammatory diseases comprises administering to a mammal a cpd. (I) which is effective in stimulating the hypothalmic-pituitary-adrenal (HPA) axis and measuring the level of hormones secreted by the pituitary and adrenal glands of the mammal. More specifically (I) may be cytokines, cell growth factors, neuroendocrine hormones such as corticotropin releasing hormone (CRH) or arginine vasopressin (AVP), biogenic amines, agonists of biogenic amines, antagonists of biogenic amines, monoamine oxidase inhibitors and biogenic amine uptake inhibitors or glucocorticoid receptor antagonists and the hormones measured may be e.g. glucocorticoids or adrenocorticotropic hormone (ACTH) in the blood plasma.

USE/ADVANTAGE - After administration of (I) the hormones are secreted in lower levels in individuals having an inflammatory disease or susceptibility to an inflammatory disease. m for testing for susceptibility to inflammat e.g. arthritis, uveoretinitis, myocarditis, multiple sclerosis and hepatic granulomatous diseases. It may also be used as a guide for the treatment of arthritis with agents that may bypass the HPA defect by stimulating the HPA axis centrally or at multiple levels. It may also provide a quide for detn. of dosage and timing schedule of replacement steroids or other HPA axis hormones such as CRH or ACTH.

Dwg.0/8 US 7365735 A

EP 446282

JP 3503803

Α

W

A method for testing mammals for susceptibility to inflammatory diseases comprises administering to a mammal a cpd. (I) which is effective in stimulating the hypothalamic-pituitary-adrenal (HPA) axis and measuring the level of hormones secreted by the pituitary and adrenal glands of the mammal. More specifically (I) may be cytokines, cell growth factors, neuroendocrine hormones such as corticotropin releasing hormone (CRH) or arginine vasopressin (AVP), biogenic amines, agonists of biogenic amines, antagonists of biogenic amines, monoamine oxidase inhibitors and biogenic amine uptake inhibitors or glucocorticoid receptor antagonists and the hormones measured may be e.g. glucocorticoids or adrenocorticotropic hormone (ACTH) in the blood plasma.

USE/ADVANTAGE - After administration of (I) the hormones are secreted in lower levels in individuals having an inflammatory disease or susceptibility to an inflammatory disease. m for testing for susceptibility to inflammat e.g. arthritis, uveoretinitis, myocarditis, multiple sclerosis and hepatic granulomatous diseases. It may also be used as a guide for the treatment of arthritis with agents that may bypass the HPA defect by stimulating the HPA axis centrally or at multiple levels. It may also provide a guide for detn. of dosage and timing schedule of replacement steroids or other HPA axis hormones such as CRH or ACTH.

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5/AB/40
             (Item 4 from file: 351)
DIALOG(R) File 351: Derwent WPI
(c) 2006 Thomson Derwent. All rts. reserv.
008005599
WPI Acc No: 1989-270711/198937
Related WPI Acc No: 1990-051539; 1990-297736; 1993-368986
XRAM Acc No: C89-119881
  Testing for susceptibility to inflammatory diseases - by administering
  cpd. which stimulates hypothalamic-pituitary-adrenal axis and measuring
  hormone levels
Patent Assignee: US DEPT HEALTH & HUMAN SERVICE (USSH ); US SEC OF
  COMMERCE (USDC )
Inventor: CHROUSOS G P; GOLD P W; STERNBERG E M; WILDER R L
Number of Countries: 016 Number of Patents: 008
Patent Family:
Patent No
              Kind
                     Date
                             Applicat No
                                            Kind
                                                   Date
                                                            Week
US 7277708
                   19890711 US 88277708
              N
                                                 19881130
                                                           198937 B
                                             Α
WO 9006112
               Α
                   19900614
                                                           199027
CA 2004133
                   19900531
               Α
                                                           199033
AU 9048039
               Α
                   19900626
                                                           199038
US 5006330
              Α
                   19910409 US 88277708
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19910918 EP 90900690

19910822 JP 90501334

Α

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Α

19881130

19891130

19891130 199140

199117

199138

EP 446282 A4 19930421 EP 90900690 A 199526

Priority Applications (No Type Date): US 88277708 A 19881130; US 89365735 A 19890614

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 7277708 N 52

WO 9006112 A

Designated States (National): AU JP

Designated States (Regional): AT BE CH DE ES FR GB IT LU NL SE

EP 446282 A

Designated States (Regional): AT BE CH DE ES FR GB IT LI LU NL SE

Abstract (Basic): US 7277708 N

A method for testing mammals for susceptibility to inflammatory diseases comprises administering to a mammal a cpd. (I) which is effective in stimulating the hypothalamic-pituitary-adrenal (HPA) axis and measuring the level of hormones secreted by the pituitary and adrenal glands of the mammal.

More specifically, (I) may be cytokines, cell growth factors, corticotropin releasing hormone (CRH); biogenic amines, agonists of biogenic amines, antagonists of biogenic amines, analogues of biogenic amines, monoamine oxidase inhibitors and biogenic amine uptake inhibitors or glucocorticoid receptor antagonists and the level of glucocorticoids (GCs) or adrenocorticotropic hormone (ACTH) in the blood plasma of the mammal.

USE - If the hormone levels secreted are lower than normal then the test is postiive for susceptibility for inflammatory diseases including arthritis, uveoretinitis, pneumonitis, encephalomyelitis, multiple sclerosis and hepatic granulomatous diseases. It may also be useful as a guide for the treatment of inflammatory diseases with agents that may bypass the HPA defect by stimulating the HPA axis centrally or at multiple levels. It may also provide a guide for determn. of dosage and timing schedule of replacement steroids or other HPA axis hormones such as CRH or ACTH.

Dwg.0/8

US 7277708 A

A method for testing mammals for susceptibility to inflammatory diseases comprises administering to a mammal a cpd. (I) which is effective in stimulating the hypothalamic-pituitary-adrenal (HPA) axis and measuring the level of hormones secreted by the pituitary and adrenal glands of the mammal.

More specifically, (I) may be cytokines, cell growth factors, corticotropin releasing hormone (CRH); biogenic amines, agonists of biogenic amines, antagonists of biogenic amines, analogues of biogenic amines, monoamine oxidase inhibitors and biogenic amine uptake inhibitors or glucocorticoid receptor antagonists and the level of glucocorticoids (GCs) or adrenocorticotropic hormone (ACTH) in the blood plasma of the mammal.

USE - If the hormone levels secreted are lower than normal then the test is positive for susceptibility for inflammatory diseases including arthritis, uveoretinitis, pneumonitis, encephalomyelitis, multiple sclerosis and hepatic granulomatous diseases. It may also be useful as a guide for the treatment of inflammatory diseases with agents that may bypass the HPA defect by stimulating the HPA axis centrally or at multiple levels. It may also provide a guide for determn. of dosage and timing schedule of replacement steroids or other HPA axis hormones such as CRH or ACTH.

Abstract (Equivalent): US 5006330 A

The susceptibility of a mammal to an inflammatory disease is

treated by A) administering to the mammal a sufficient amount of interleukin-1 to stimulate the hypothalmicitpuitary-adrenal axis and B) measuring the level of hormone(s) secreted by the pituitary or adrenal glands in the blood plasma of the mammal.

The hormones are pref. the glucocorticoid or adrenocorticotropic hormones. The disease can be arthritis, uveoretinitis, pneumonitis, encephalomyelitis, multiple sclerosis or hepatic granulomatas. The mammal is esp. human and the disease is arthritis. ADVANTAGE - An effective test. (20pp

5/AB/41 (Item 5 from file: 351) DIALOG(R) File 351: Derwent WPI (c) 2006 Thomson Derwent. All rts. reserv. 004184942 WPI Acc No: 1985-011822/198502 Related WPI Acc No: 1983-801098 XRAM Acc No: C85-004998 XRPX Acc No: N85-008525 Treating arthritis with isocarboxazid - to inhibit biosynthesis of prostaglandin E2 Patent Assignee: LIEB J (LIEB-I) Inventor: LIEB J Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date Week US 4490385 19841225 US 83539306 Α 19831005 198502 B Α Priority Applications (No Type Date): US 83539306 A 19831005; US 81319651 A 19811109 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes US 4490385 Α

Abstract (Basic): US 4490385 A

Arthritis is treated by administration of isocarboxazid (I) as monoamine oxidase inhibitor. The pref. oral dose is 5-60 mg/day.

USE - (I), and other MAO inhibitors, are already known for treatment of depression and are now found to inhibit prostaglandin, esp. PGE 2, biosynthesis. They are thus useful for treating a wide variety of inflammatory and autoimmune conditions associated with excessive PGE2 levels, e.g. arthritis, multiple sclerosis, diabetes, lupus arythematosus and infertility.

5/AB/42 (Item 6 from file: 351)
DIALOG(R)File 351:Derwent WPI
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003804857
WPI Acc No: 1983-801098/198343
XRAM Acc No: C83-104680
Arthritis treatment with monoamine oxidase inhibitors - i.e. mebanazine or uranyl cypromine
Patent Assignee: LIEB J (LIEB-I)
Inventor: LIEB J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week US 4409243 A 19831011 198343 B

Priority Applications (No Type Date): US 81319651 A 19811109; US 83539306 A 19831005

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 4409243 A 4

disappeared.

Abstract (Basic): US 4409243 A

Arthritis treatment comprises admin. of a monoamine oxidase inhibitor which is metanazine (I) or tranylcupromine (II). Oral doses are e.g. 5-50 mg/day (I) and up to 60 mg/day (II). In an example, a manic-depressive female patient on Li therapy (900 mg/day) was diagnosed to be suffering from rheumatoid arthritis in the knees and fingers. When receiving (II) at 40 mg/day for treatment of the depressive phase it was noticed that the arthritic pain had

Monoamine oxidase inhibitors (MAOI) are used for ameliorating immunity and inflammatory disorders characterised by excessive PGE2 biosynthesis, e.g. rheumatoid and allergic arthritis; certain virus induced conditions, e.g. Guillain Barre syndrome, infectious mononucleosis, other viral lymphadenopathines and infectious with herpes virus; demyelinating diseases, e.g. multiple sclerosis; haematological disorders, e.g. hemoltyic anaemia and thrombocytopenia, endocrinological disorders, e.g. diabetes mellitus, Addisons disease; collagen disorders, e.g. systemic lupus erythematosus; and reproductive disorders, e.g. amenorrhoea, infertility, recurrent abortions and eclampsia.

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